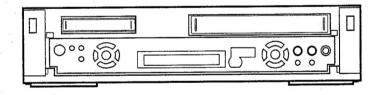
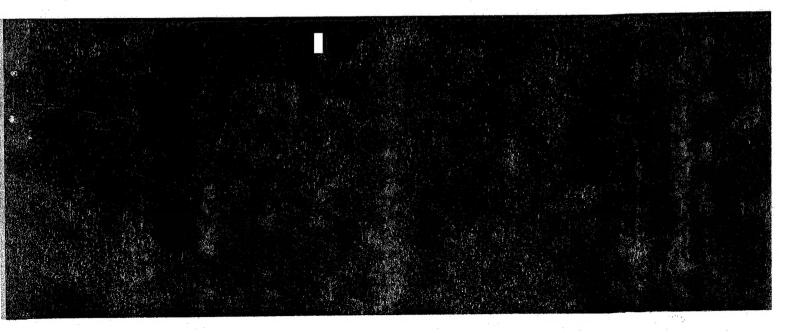
# DOUBLE DECK VIDEO CASSETTE RECORDER SERVICE MANUAL

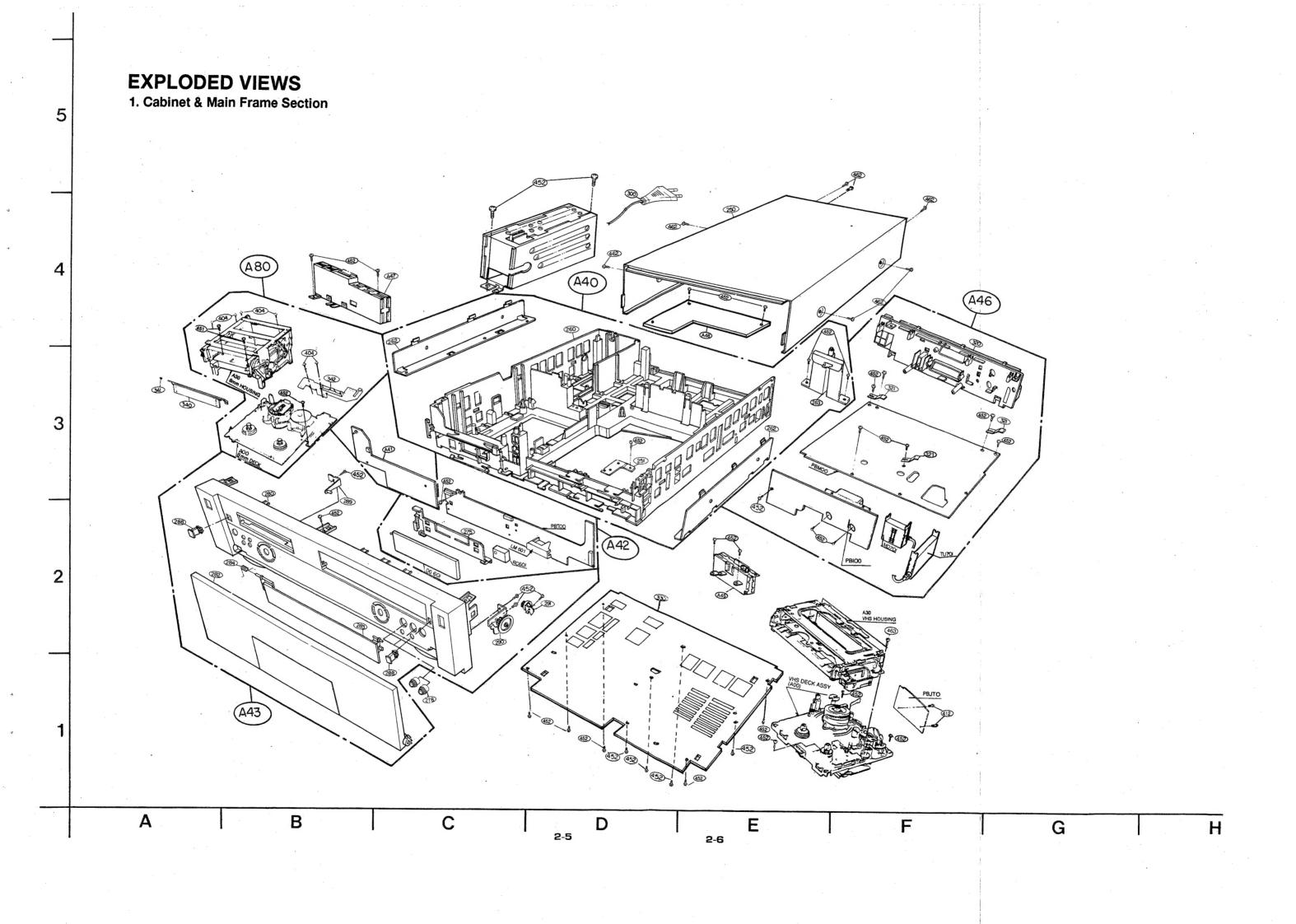
**MODEL: QUISY 900** 

#### CAUTION

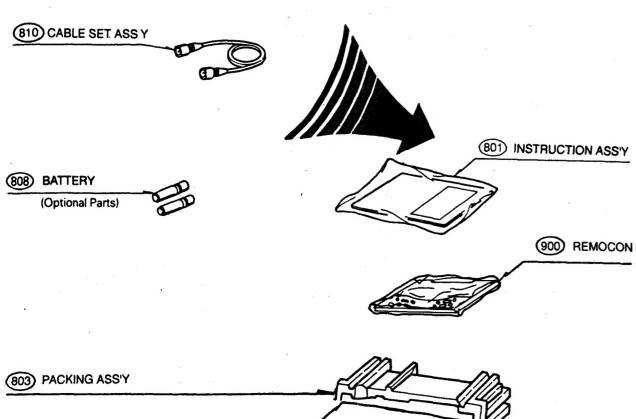
BEFORE SERVICING THE UNIT, READ THE "SAFETY PRECAUTIONS" IN THIS MANUAL.

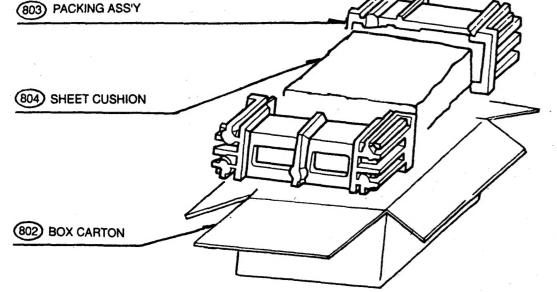






# 2. Packing Accessory Section





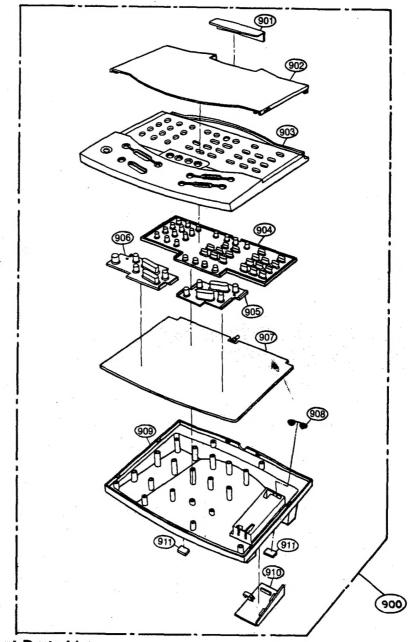
# • Replacement Parts List

RUN DATE: 95.09.26
NSP: Not Service Part

2-7

Nor. Not o							
s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS	
		801 802	480-657G 290-452A	INSTRUCTION ASSY BOX CARTON	:		
		803 804	283-217A 291-002D	PACKING SHEET CUSHION		Non	
		808 810	534-008C 861-505J	BATTERY CABLE SET ASSY	AAAM(R03) 1.5V 1PAIR(LOCAL) RF-CABLE ASSY PAL FTZ	NSP	

# 3. Remote Control Section



• Replacement Parts List

RUN DATE: 95.09.26
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	597-121F	REMOTE CONTROL	2ND D/DECK ASSY	
ĺ		901	236-558A	WINDOW	FILTER(2ND D/D)	NSP
		902	220-084B	COVER	D/D3 R/C	NSP
		903	217-485H	CASE	TOP	NSP
		904	275-699B	BUTTON	D/D2 R/C	NSP
	ŀ	905	275-612A	BUTTON	RUBBER VHS (R/C)	NSP
		906	275-611A	BUTTON	RUBBER 8MM (R/C)	NSP
		907	515-824E	PWB ASSY!	REMOCON (2ND DOUBLE DECK)	NSP
		908	442-611A	SPRING	COIL (R/C)	NSP
		909	217-486D	CASE	ВОТТОМ	NSP
		910	221-857D	COVER	BATTERY	,,,5,
		911	477-054A	RUBBER	BUMPON	NSP

# **TABLE OF CONTENTS**

SECTION 1	SUMMARY	1-2-2. VCO (Record Current Frequer	ıcy)
		Adjustment	
	IS1-4	1-3. Tuner/IF Circuit	
	RECAUTIONS1-5	1-3-1. AFC Adjustment	
	vicing1-5	1-3-2. RF AGC Adjustment	
	SERVICING1-6	1-3-3. SIF Adjustment	
	st1-6	2. 8mm Circuit Adjustment	
	1-6	2-1. Servo Circuit	
	1-6	2-1-1. PG Adjustment	
	1-6	2-2. Y/C Circuit	
	1-7	2-2-1. Playback Output Level Adjustr	
	1-7	2-2-2. Color VCO Adjustment	
	1-7	2-3. Audio Circuit	
LOCATION OF CUSTOM	ER CONTROLS1-8	2-3-1. VCO Adjustment	
OFOTION O		2-3-2. Deviation (L) Adjustment	
SECTION 2		2-3-3. Deviation (R) and Matrix Adjusti	
CABINET	& MAIN FRAME	BLOCK DIAGRAMS	
		1. VHS Block Diagrams	
	NECTING METHOD2-1	1-1. Power Block Diagram	
	eting Method2-1	1-2. Pre-Amp Block Diagram	
	re List2-1	1-3. Main System (Servo, Syscon) Block Diagr	
	Y2-2	1-4. Y/C Block Diagram	
	2-2	1-5. Audio Block Diagram	
	2-2	1-6. Timer Block Diagram	
	2-2	1-7. Tuner/IF Block Diagram	
	SEMBLY2-3	1-8. In/Out & Function OSD Block Diagram	
•	nent2-3	2. 8mm Block Diagrams	
	12-3	2-1. Main System (Servo, Syscon) Block Diagr	
	2-3	2-2. Audio Block Diagram	
	d2-3	2-3. Pre-Amp Block Diagram	
	rcuit Board2-4 n Circuit Board2-4	2-4. Y/C Block Diagram	
•	2-5	CIRCUIT DIAGRAMS	
	Section2-5	1. VHS Circuit Diagrams	
	ction2-7	1-1. Power Circuit Diagram	
	n2-8	1-2. Main System (Servo, Syscon) Circuit	
3. Nemote Control Section		Diagram	
SECTION 3	<b>ELECTRICAL</b>	1-3. Y/C Circuit Diagram	
OLO HONO	EEEGIMOAE	1-4. Timer/Key Function Circuit Diagram.	
ELECTRICAL ADJUSTM	IENT PROCEDURES 3-1	1-5. Audio Circuit Diagram	
• Electronic Test Equipm	ent Requirement3-1	1-6. Tuner/IF Circuit Diagram	ರ-၁ ၊
1. VHS Circuit Adjustmen	t3-1	1-7. Scart In/Out & Function OSD Circuit	2 55
	3-1	Diagram	
1-1-1. PG Adjustm	nent3-1	1-8. Pre-Amp Circuit Diagram	
	3-2	2. 8mm Circuit Diagrams	
1-2-1. Record Bias	s Adjustment3-2	2-1. Main System (Servo, Syscon) Circuit	3-65
		· resource (1)	

2-2. Y/C Circuit Diagram	3-69	9-8. Gear L4		
2-3. Audio Circuit Diagrar	n3-75	9-9. Spring L	4-9	
2-4. Pre-Amp Circuit Diag	gram3-79	9-10. Switch Lever	4-9	
3. Connection Diagram		DECK MECHANISM DISASSEMBLY		
PRINTED CIRCUIT BOARD		Deck Mechanism Parts Location	4-10	
1. VHS Printed Circuit Board	d3-83	1. Auto Head Cleaner Assembly	4-11	
1-1. Main P.C.Board	3-83	2. Drum and Drum Base Assembly		
1-2. Power P.C.Board		3. Drum Assembly		
1-3. Pre-Amp P.C.Board.		3-1. Drum Sub and Motor Assembly		
•	3-87	3-2. Upper and Lower Drum Assembly		
1-5. Deck Junction P.C.B		4. A/C Head Assembly		
1-6. Scart In/Out P.C.Boa		5. Pinch Lever Assembly		
2. 8mm Printed Circuit Boar		6. Loading Motor Assembly		
2-1. Main P.C.Board		7. Take Up Lever		
2-2. Timer ( I ) P.C.Board	·	8. Take Up Arm Assembly		
2-3. Pre-Amp P.C.Board		9. P4 Assembly		
2-4. Deck Junction P.C.Bo		10. Pinch Gear		
2 4. Dook danokon 1.0.D.		11. Full Erase Head Assembly		
SECTION 4	MECHANISM	12. P1 Assembly		
		13. Tension Arm Assembly		
SECTION 4-1		14. Supply Soft, Supply Main, Take Up Soft ar		
VHS DE	CK MECHANISM	Take Up Main Brake Assembly		
FRONT LOADING MECHA	NISM DISASSEMBLY	15. Bracket F/R Assembly		
Front Loading Mechanism		16. Supply Reel Assembly		
Front Loading Mechanism		17. Take Up Reel Assembly		
2. PCB Assembly	•	18. Idler Gear (A), (B)		
2-1. PCB Assembly (R)		19. Pulley Gear Assembly		
2-2. PCB Assembly (L)		20. Bracket Bottom Assembly		
3. Top Plate		21. Junction PCB Assembly		
Carrier Bracket Assembly		22. Capstan Motor/Brake Assembly		
4-1. Carrier Bracket Assembly	•	23. Function Plate		
4-2. Cassette Opener		24. Ratchet Lever Assembly		
4-3. Rid Opener		25. Cam Gear, Rack T, Rack F.L		
4-4. Detect Lever and De		26. PC Gear		
4-5. Support Bracket Ass		27. P2 and P3 Slant Assembly		
4-6. Carrier Bracket Asse		28. Loading Gear Assembly		
5. Cassette Guide	•	29. Tension Lever Assembly		
6. Bracket Assembly Side		30. Clutch Gear Assembly		
7. Bracket Assembly (L), (R)		MECHANISM ADJUSTMENT	0	
8. Door Opener		Tools and Fixtures for Deck	4-21	
9. Drive Gear Assembly		Mechanism State Switch (Mode Switch)	6-1	
		Check	4-22	
9-1. Drive Gear Assembly		Preparation for Adjustment (To set VCR to		
9-2. Cushion Spring		Loading State without inserting a cassette		
9-3. Cap-D			,4-20	
9-4. Spring C.C		Tension post position and Tension     Adjustment	4 04	
9-5. Gear C		Adjustment		
9-6. Gear R		4. Checking Torque		
9-7. Spring R	4-9	5. Guide Roller Height Adjustment	4-2/	

Audio/Control (A/C) Head Adjustment	12. Drum Base Ass'y and Interia Roller Ass'y4-60  13. Brake Clutch, Reel Ass'y (S), Reel Ass'y (T), Sensor Bracket, Idler Gear Ass'y and Cam Spacer
Guide	2. Preparations
SECTION 4-2 8mm DECK MECHANISM	SECTION 5 REPLACEMENT PARTS LIST
Periodical Check and Maintenance	1. Mechanical Section
10. Loading Base Ass'y, Mode Gear A'ssy and Eject Lever Ass'y	

# SECTION 1 SUMMARY KEY TO ABBREVIATIONS

Α	AC	:Alternating Current		LPF	:Low Pass Filter
	ACC	:Automatic Color Control	M	MAX	:Maximum
	ACSS	:Automatic Channel Setting System		MD	:Modulator
	ADJ	:Adjust		MECHA.CTL	:Mechanism Control
	A/E	:Audio Erase		MIC	:Microphone
	AFC	:Automatic Frequency Control		MIN	:Minimum
	AFT	:Automatic Fine Tuning		MIX	:Mixer, Mixing
	AGC	:Automatic Gain Control		M.M.	:Mono Multi Vibrator
	A.H.SW	:Audio Head Switch		MMV	:Monostable Multivibrator
	ALC	:Automatic Level Control		MOD	:Modulation, Modulator
	AM .	:Amplitude Modulation		MODEN	:Modulation-Demodulator
	AMP	:Amplifier		MPX	:Multiplex
	ANT	:Antenna		NR	
	APC	:Automatic Phase Control	N		:Noise Reduction
	ASS'Y	:Assembly	0	OSC	:Oscillator
	AUX	:Auxiliary		OSD	:On Screen Display
-	B		- P	PB	:Playback
В		:Base	•	PCB	:Printed Circuit Board
	BGP	:Burst Gate Pulse		P.CTL	:Power Control
	BPF	:Bandpass Filter		PER-AMP	:Preamplifier
	BS	:Brodcasting Satellite		P.F	:Power Failure
	BW or B/W	:Black and White		PG	:Pulse Generator
С	C	:Capacitor, Chroma, Collector		PLL	:Phase Locked Loop
	CAN	:Cancel		PREM.DET	:Premire Detect
	CAP	:Capstan		P-P	:Peak to Peak
	CAP.BRK	:Capstan Brake		PS	:Phase Shift
	CAP.RVS	:Capstan Reverse		PWM	:Pulse Width Modulation
	CATV	:Cable Television		PWR CTL	
	CBA	:Circuit Board Assembly	_		:Power Control
	CCD	:Charge Coupled Device	Q	Q	:Transistor
	C.CTL	:Chro Control, Capstan Control		QH	:Quasi Horizontal
	CFG	:Capstan Frequency Generator		QSR	:Quick Set Record
	CHROMA	:Chrominance		QTR	:Quick Timer Record
	CNR	:Chroma Noise Reduction		QV	:Quasi Vertical
	COMB	:Combination	R	R	:Resistor, Right
	COMB	Comb Filter		RE(or RC)	:Remocon, Receiver
	COMP	:Comparator		REC	:Recording
	CONT	Composite		REC S.'H'	:Record Start 'Hight'
		Compensation		REF	:Reference
	CONV	:Converter		REG	:Regulated, Regulator
	C.ROT SW	:Color Rotary Switch		REMOCON	:Remote Control(unit)
	CS CS	:Chip Select		RF	:Radio Frequency
	C.SYNC			R/P	:Record/Playback
	CTL DIV	:Composite Synchronization :Control Divide		RTC	:Reel Time Counter
	CUR	:Current	s	S	
	CYL		5	S.ACCEL	:Serial
_		:Cylinder	-		:Slow Accel
D	D	:Drum, Digital, Diode, Drain		SAOP	:Second Audio Program
	D.ADJ	:Drum Adjust		SC	:Scart, Simulcast
	DC	:Direct Current		S.DET	:Secam Detect
	D.CTL	:Drum Control		SH	:Shift
	DEMOD.	:Demodulator		SHARP	:Sharpness
	DET	:Detect		SIF	:Sound Intermediate Frequency
	DEV	:Deviation		SLD	:Side Locking
	DHP	:Double High Pass		S/N	:Signal to Noise Ratio
	DIGITRON	:Digital Display Tube		SP	:Standard Play
	DL	:Delay Line		ST	:Stereo
	DOC	:Drop Out Compensator		SUB	:Subtract, Subcarrier
	DUB	:Dubbing		SW or S/W	:Switch
	D.V SYNC	:Dummy Vertical Synchronization		SYNC	:Synchronization
E	E	:Emitter	•	SYSCON	:System Control
	EE	:Electric to Electric	T	T	:Coil
	EMPH	:Emphasis		TP	:Test Point
	ENA	:Enable		TŘ	:Transistor
	ENV	:Envelope		TŘK	:Tracking
	EP	:Extended Play		TRANS	:Transformer
	EQ	:Equalizer		TU	:Tuner, Take-Up
	EXP	:Expander	U	UHF	:Ultra Hight Frequency
F	F	:Fuse		UNREG	:Unregulated
1"	FB	:Feed Back	V	V	
	FBC		٧		:Volte, Vertical, Video
		:Feed Back Clamp		VA	:Voltage Alive
	FE	:Full Erase		VCO	:Voltage Controlled Oscillator
	FG	:Frequency Generator		VGC	:Voltage Gain Control
	FL	:Filter		VHF	:Very High Frequency
	FM	:Frequency Modulation		V.H.SW	:Video Head Switch
	F/R	:Forward/Reverse		VISS	:VHS Index Search System
	FS	:Frequency Synthesizer		VPS	:Video Program System
	FSC	:Subcarrier Frequency		VR	:Variable Resistor or Volume
	F/V	:Frequency Voltage		V-SYNC	:Vertical Synchronization
G	GEN	:Generator	-	VTG	:Voltage
Н	H	:High, Horizontal	•	VV	:Video to Video
ï	ic		•	VXO	:Voltage X-tal Oscillator
•	IC IF	:Intergrated Circuit	W	W	:Watt
		:Intermediate Frequency	••	WHT	:White
	INS	:Insert		W/O	:With Out
L	Ľ_	:Low, Left, Coil	~	X-TAL	:Crystal
	LD	:Loading	X		
	LD VTG CTL	:Loading Voltage Control	Υ	Y/C	:Luminance/Chrominance
	LECHA	:Letter Character	_	YNR	:Luminance Noise Reduction
•	L.M	:Level Meter	Z	ZD	:Zener Diode
	LP	:Long Play			
		,			1.1

#### IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, the products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

#### Precautions during Servicing

- 1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
- 2. Parts identified by the \( \infty \) symbol and shaded ( \( \infty \) parts are critical for safety. Replace only with specified part numbers.

Note: Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.

- 3. Use Specified internal wiring. Note especially:
  - 1) Wires covered with PVC tubing
  - 2) Double insulated wires
  - 3) High voltage leads
- Use specified insulating materials for hazardous live parts. Note especially:
  - 1) Insulation Tape
  - 2) PVC tubing
  - 3) Spacers
  - 4) Insulation sheets for transistor
- When replacing AC primary side components (transformers, power cords, noise blocking capacitors, etc.) wrap ends of wires securely about the terminals before soldering (Fig. 1)
- Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
- Check that replaced wires do not contact sharp edged or pointed parts.
- 8. When a power cord has been replaced, check that 10-15Kg of force in any direction will not loosen it.(Fig. 2)
- 9. Also check areas surrounding repaired locations.

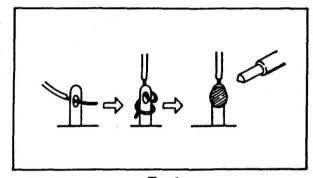


Fig. 1

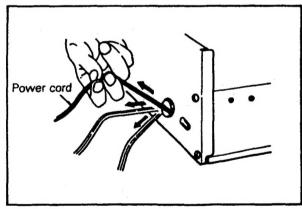


Fig. 2

10. Products using cathode ray tubes (CRTs)

In regard to such products, the cathode ray tubes themselves, the high voltage circuits, and related circuits are specified for compliance with recognized codes pertaining to X-ray emission. Consequently, when servicing these products, replace the cathode ray tubes and other parts with only the parts specified. Under no circumstances attempt to modify these circuits. Unauthorized modification can increase the high voltage value and cause X-ray emission from the cathode ray tube.

#### SAFETY CHECK AFTER SERVICING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

#### Insulation resistance test

Confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table below.

#### · Dielectric strength test

Confirm specified dielectric strength or greater between power cord plug prongs and exposed accessible parts

of the set(RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.). See table below.

#### Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

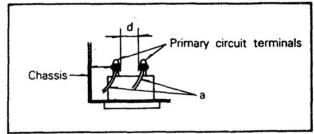


Fig. 3

Table 1:Ratings for selected areas

AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance(d),(d)
*110 to 130 V 200 to 240 V	Europe Australia	≧10 MΩ/500 V DC	4kV 1 minute	≩6mm(d) ≩8mm(d) (a Power cord)

<sup>\*</sup>Class II model only.

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

#### Leakage Current test

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.)

Measuring Method: (Power ON)

Insert load Z between Blearth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.

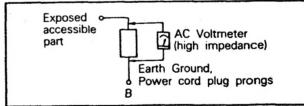


Fig. 4

Table 2:Leakage current ratings for selected areas

AC Line Voltage	Region	Load Z	Leakage Current(i)	Earth Ground (B) to:
100 to 130 V	Europe	°	i≤0.7m A peak i≤2m A dc	Antenna earth terminals
200 to 240 V	Australia		i≦0.7m A peak i≦2m A dc	Other terminals

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

#### INTRODUCTION

This service manual provides a variety of service information. It contains the mechanical structure of the Double Deck Video Cassette Recorder together with mechanical adjustments and the electronic circuits in

schematic form. This Double Deck VCR was manufactured and assembled under our strict quality control standards and meets or exceeds industry specifications and standards.

#### **FEATURES**

- the VHS and Hi 8mm system with HQ-picture technology for extraordinary picture sharpness and high resolution.
- Hi-Fi stereo for excellent sound quality including a NICAM sound decoder.
- · the channels will be preset and memorized automatically.
- · automatic power and playback.
- four VHS video heads for a clear still image and a variable slow motion.
- three Hi 8mm video heads for Hi 8mm playback, standard 8mm playback also possible.
- · assemble editing from 8 mm tape to VHS tape.
- the easy searching of your recordings by automatic and manual index marking, which can also be erased.
- the blank search system for searching the unrecorded portion of the tapes.

- · the quick mechanism for fast tape function transitions.
- the long play VHS recording and playback facility.
- the real time tape counter and the VHS remaining tape time display.
- eight programme timer, programmable up to one year in advance, can be set for daily or weekly recording.
- the on-screen display of many functions e.g. the stored timer programmes.
- and many more, like additional Euro-AV sockets, audio dubbing, child lock, immediate recording timer, and title generator.
- built-in ShowView Programming: Optional Function ShowView is a trademark applied for by Gemstar Development Corp.
   ShowView system is manufactured under license from

ShowView system is manufactured under license from Gemstar Development Corporation.

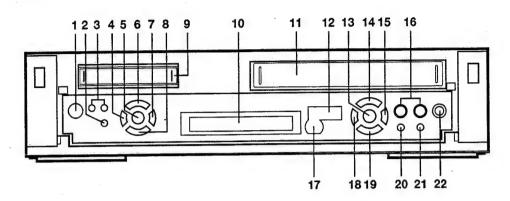
#### **SPECIFICATIONS**

General		
		AC 230V (±10%), 50Hz
Power supply:		
Power consumption:		Approx. 35W 430 × 99 × 390mm
Cabinet size( $W \times H \times D$ ):		
Weight:		Approx. 8.2Kg
Operating temperature :		5° C to 35° C surrounding temperature 35-80%
Operating humidity:		33-60%
8 mm Player section		
Format:		8 mm PAL Standard
Heads:		3 video heads
Tape speed:	(SP)	20.05 mm/sec.
	(LP)	10.025 mm/sec.
Tape width:		8 mm
Video output :		1 Vpp 75 ohm unbalanced
Audio output:		0 dBm, less than 1 Kohm
VHS Recorder section		
Format:		VHS PAL Standard
Heads:		4 video heads
Tape speed:	(SP)	23.39 mm/sec.
	(LP)	11.635 mm/sec.
Tape width:	( - <i>)</i>	12.7 mm
Video:		PAL B/G
Recording/playback time :		300 min. (LP: 600 min.)
		with E-300
Aerial input:		PAL : VHF 01-11
		UHF 21-69
		CATV S01-S41
		HYPER 71-73
RF output:		UHF channels 32~40 (Variable)
Video input:		1 Vpp 75 ohm unbalanced
Video output :		1 Vpp 75 ohm unbalanced
S/N ratio (video):		45dB nominal
Audio input:		0dBm, more than 50 Kohm
Audio output :		0dBm, less than 1 Kohm
Audio track:		Mono track & Hi-Fi tracks
S/N ratio (audio):		NORMAL: >45dB/Hi-Fi: >68dB (JIS A FILTER)
Audio frequency range:		NORMAL: 100Hz-10kHz (-6/+3)
7 3		Hi-Fi : 20Hz-20kHz
Audio dynamic range :		Hi-Fi Audio : >75dB (JIS A FILTER)
* Designs and enceifications are subject to change	with a standard	

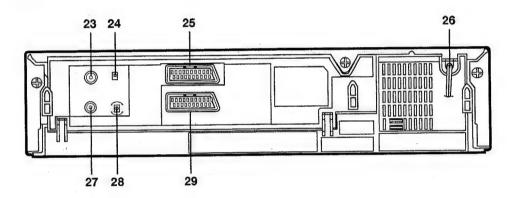
\* Designs and specifications are subject to change without notice.

# LOCATION OF CUSTOMER CONTROLS

#### FRONT



#### REAR



- 1. OPERATE ON/OFF BUTTON
- 2. OTC BUTTON

#### 8 mm Player section

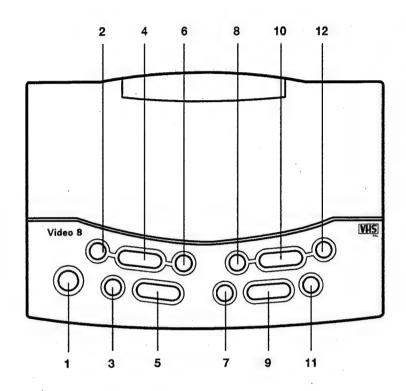
- 4. REWIND/REVIEW BUTTON
- 5. STOP/EJECT BUTTON
- 6. PLAY BUTTON
- 7. FAST FORWARD/CUE BUTTON

#### **VHS Recorder section**

- 11. CASSETTE COMPARTMENT
- 12. AUDIO LEVEL METER
- 13. STOP/EJECT BUTTON
- 14. PLAY (×2) BUTTON
- 15. FAST FORWARD/CUE BUTTON
- 16. AUDIO RECORDING LEVEL CONTROLS (L/R)
- 17. REMOTE CONTROL SENSOR (8mm & VHS)
- 18. REWIND/REVIEW BUTTON
- 19. P/STILL BUTTON
- 20. RECORD BUTTON

- 3. PR/TRK (-/+) BUTTONS
- 8. STILL BUTTON
- 9. CASSETTE COMPARTMENT
- 10. MULTI FUNCTION DISPLAY (8mm & VHS)
- 21. AUDIO DUBBING BUTTON
- 22. MIC IN JACK
- 23. AERIAL INPUT SOCKET
- 24. TPSG ON/OFF SWITCH
- 25. EURO-AV 1 SOCKET
- 26. MAINS LEAD
- 27. RF OUTPUT
- 28. VIDEO CHANNEL CONTROL
- 29. EURO-AV 2 SOCKET

#### REMOTE CONTROL



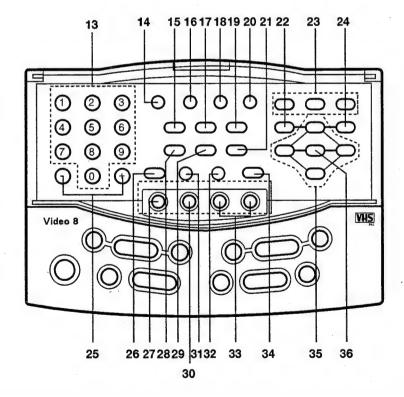
#### 1. OPERATE ON/OFF BUTTON

#### 8 mm Player section

- 2. REWIND/REVIEW BUTTON
- 3. STILL BUTTON
- 4. PLAY BUTTON
- 5. STOP BUTTON
- 6. FAST FORWARD/CUE BUTTON

#### VHS Recorder section

- 7. P/STILL BUTTON
- 8. REWIND/REVIEW BUTTON
- 9. STOP BUTTON
- 10. PLAY (×2) BUTTON
- 11. FRAME ADVANCE BUTTON
- 12. FAST FORWARD/CUE BUTTON



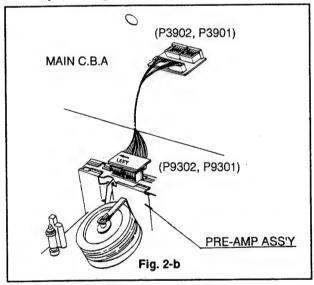
- 13. NUMBER BUTTONS
- 14. TAPE SPEED SELECT BUTTON (LP)
- 15. MIC MIX BUTTON
- 16. TV/VCR BUTTON: \*
- 17. CHILD LOCK BUTTON
- 18. MONITOR BUTTON
- 19. TU/AV BUTTON
- 20. SHOWVIEW BUTTON: \*
- 21. REC/QSR BUTTON
- 22. MENU BUTTON
- 23. VISS BUTTONS
- 24. CLEAR BUTTON
- 25. PR/TRK (+/-) BUTTONS
- 26. AUTO TRACKING BUTTON
- 27. EDIT BUTTON
- 28. B.SEARCH BUTTON
- 29. AUDIO DUBBING BUTTON
- 30. OTC BUTTON
- 31.8mm RESET BUTTON
- 32. VHS RESET BUTTON
- 33. SLOW BUTTONS
- 34. RESET BUTTON
- 35. CURSOR BUTTONS
- 36. OK BUTTON
- \* \* : Optional Function

# SECTION 2 CABINET & MAIN FRAME SERVICE FIXTURE CONNECTING METHOD

#### 1. SVC FIXTURE Connecting Method

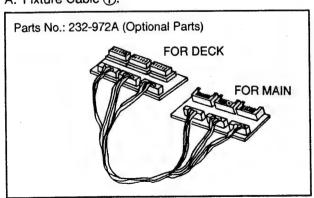
A. FIXTURE Cable (1) Connecting Method.

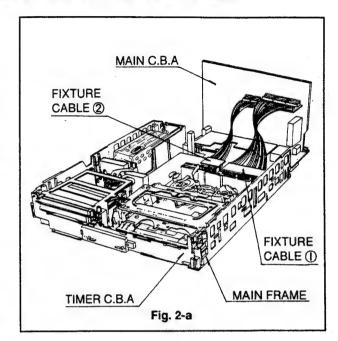
- a) Connect the FIXTURE Cable ① between Main C. B.A and Junction C.B.A. (P2J01, P2J02, P2J03)
- b) At this time, should be in the left side " ← LEFT" mark on the P.C.B of the FIXTURE Cable ①. (See Fig. 2-a, 2-c)
- c) Connect the connector of "MAIN" mark of FIXTURE Cable (1) with the Main C.B.A and the connector of "JUNCTION" mark with the Junction C.B.A. (See Fig. 2-a, 2-c)
- B. FIXTURE Cable @ Connecting Method.
- a) Connect the FIXTURE Cable ② between Main C. B.A and Pre-Amp Ass'y. (P3901=P9301, P3902=P9302)
- b) At this time, should be in the left side " LEFT" mark on the P.C.B of the FIXTURE Cable 2. (See Fig 2-a, 2-b)
- c) Connect the connector of "MAIN" mark of FIXTURE Cable ② with the Main C.B.A and the connector of "JUNCTION" mark with the Pre-Amp Ass'v. (See Fig. 2-a, 2-b)

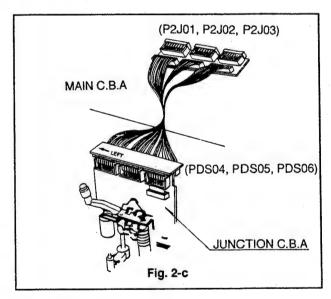


#### 2. Electrical Service Fixture List

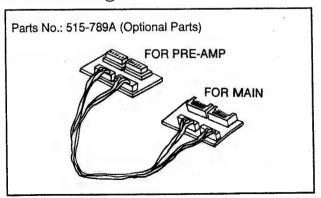
#### A. Fixture Cable ().







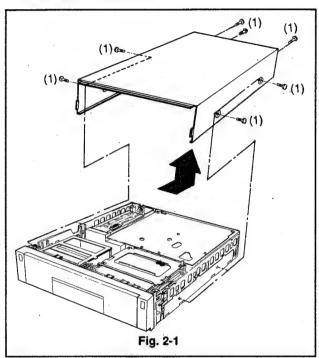
#### B. Fixture Cable (2).



## CABINET DISASSEMBLY

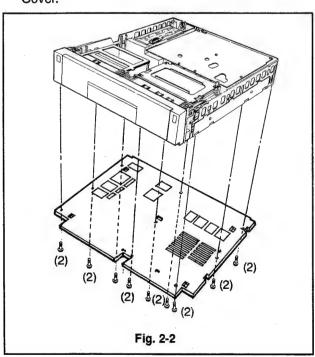
#### 1. Top Case

- A. Release 7 screws (1).B. Hold the back of Top Case and lift it up slightly backward to remove it.



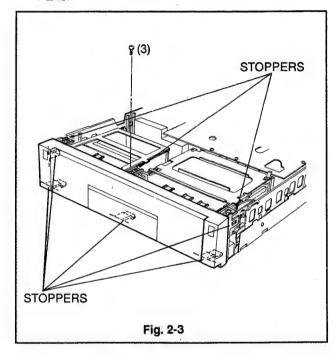
#### 2. Bottom Cover

A. Release 9 screws (2) to remove the Bottom Cover.



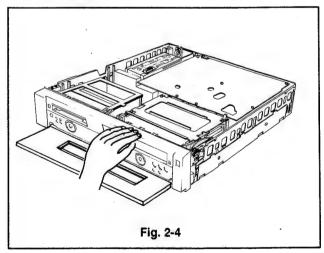
#### 3. Front Panel

- A. Release 1 screws (3).
- B. Remove the stoppers on the top of Front Panel.
- C. Remove the stoppers on the bottom side Front Panel.



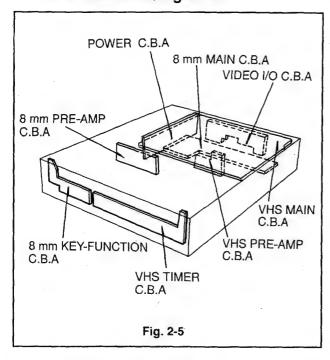
#### \* Caution

When reassemble the Front panel, assemble it in condition of inserting the Door Cassette inside, as shown in Fig.2-4



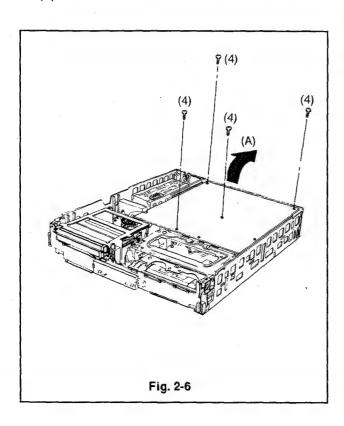
# **CIRCUIT BOARD DISASSEMBLY**

#### 1. Circuit Board Arrangement



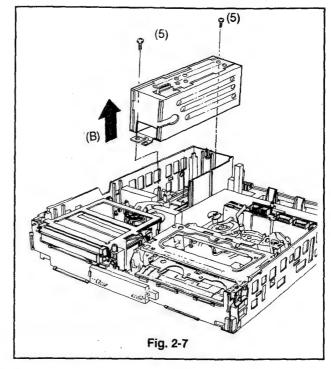
#### 2. VHS Main Circuit Board

- A. Release 4 screws (4).
- B. Remove the Main C.B.A in the direction of arrow (A).



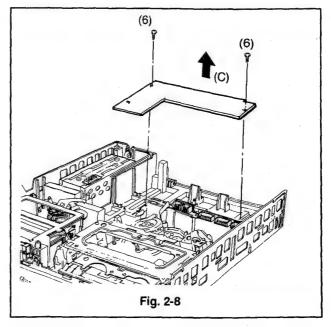
#### 3. Power Circuit Board

- A. Remove the Bottom Cover. (Fig. 2-2)
- B. Release 2 screws (5).
- C. Remove the Power C.B.A in the direction of arrow (B).



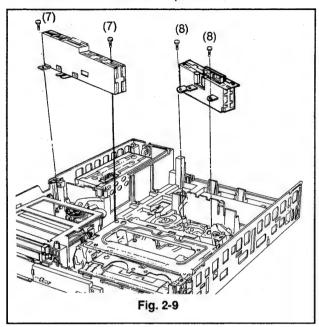
#### 4. 8mm Main Circuit Board

- A. Release 2 screws (6).
- B. Remove the 8mm Main C.B.A in the direction arrow (C).



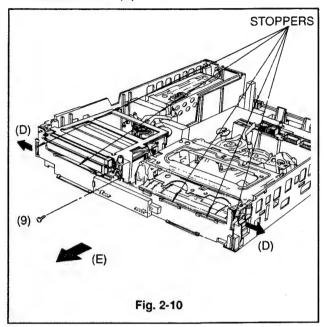
#### 5. 8mm/VHS Pre-Amp Circuit Board

- A. Release 2 screws (7).
- B. Remove the 8mm Pre-Amp C.B.A.
- C. Release 2 screws (8).
- D. Remove the VHS Pre-Amp C.B.A.



#### 6. 8 mm/VHS Key Function Circuit Board

- A. Release 1 screw (9).
- B. Release 9 stoppers in the direction arrow (D).C. Remove the 8mm/VHS Key Function C.B.A in the direction arrow (E).



### • Cabinet & Main Frame Section Replacement Parts List

REMARK	SPECIFICATION	DESCRIPTION	PART NO(GS)	LOCA.NO	AL.
	SECTION	ASSEMBLY PARTS			
NSP	ASSY MAIN	FRAME	315-314N	A40	П
	KEYBOARD 2NDDD1S	BOARD ASSY	3501R-0249A	A41	
	TIMER 2NDDD1S	BOARD ASSY	3501R-0248A	A42	
	FRONT ASSY	PANEL	258-722F	A43	
	SMPS	BOARD ASSY	3501R-0247B	A44	
	PRE AMP ASSY	MODULE	501-522A	A45	
-	MAIN	BOARD ASSY	3501R-0245D	A46	
	8MM PRE-AMP(2NDDD1S)	BOARD ASSY	3501R-0251A	A47	
	8MM MAIN (2NDDD1S)	BOARD ASSY	3501R-0246A	A48	
		PARTS SEC			لبل
			617 1700	050	T-
	TOP	CASE	217-472G	250	
	HOUSING	BRACKET	321-526A	251	1 1
NSP	MAIN	FRAME	315-300B	260	
NSP	GND (FTZ)	PLATE	257-061A	262	
NSP	PWB	HOLDER	324-976A	263	
1	DIGITRON	HOLDER	324-872A	275	
	TRACKING	KNOB	273-116A	278	
NSP	FRONT	PANEL	258-717F	280	
	DOOR ASSY	COVER	220-075D	282	
	CST	DOOR	226-104F	283	
	DOOR	SPRING	442-469A	284	1
	ASSY DOOR	MAGNET	524-013A	288	1
1	ASSY COVER DOOR	BRACKET	321-718A	289	1
	ASSY DAMPER	BRACKET	321-719A	290	1
	ASSY DAMPER(T;60)	GEAR	435-465B	291	
	KKP-419J B-172 KLCE-2F PAL	CORD	681-051A	300	
	H03VVH2-F 2X0.75MM LP21R/PE221	CORD	681-951A	300	
	ASSY DISTRIBUTOR	PANEL	258-596G	320	
	BOTTOM GROUND	PLATE	257-006A	321	
	BOTTOM	COVER	221-834A	330	
	CST 8MM	DOOR	226-064K	340	
	DOOR	SPRING	442-591A	341	
	ASSY PIAMP 8MM	HOLDER	340-088A	342	
		SCREW			
	(3X10 FZMY)	SCREW	353-046C	451	Τ
-1	SPECIAL(3X10 FZMY)	SCREW	353-051A	452	[
	(3X10 FZMY)	SCREW	353-046C	459	
	SPECIAL(4.6X12.5 FBK)	SCREW	353-136A	462	1
1	SPECIAL TP	SCREW	353-090A	472	1

				RUN DATE: 95.09.26				
s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION				
	CIRCUIT BOARD ASSEMBLY							
PBIO0   6871R-0252A   I/O BOARD (2NDDD1S)   PBJT0   515-908B   JUNCTION 2 (G/S)   PBM00   6871R-0245D   VHS MAIN (DV13P 3GL1)   PBT00   6871R-0248A   TIMER 2NDDD1S								

# **SECTION 3 ELECTRICAL ELECTRICAL ADJUSTMENT PROCEDURES**

# • Electronic Test Equipment Requirement

- Oscilloscope
- · Video signal Generator
- Level Meter
- Frequency Counter
- · + Driver
- · Test Tape (SP)-PAL, (VHS, 8mm)
- Test Tape (SP)-PAL Stereo

#### (8mm)

- Recording Tape (VHS)
- Digital Multimeter

#### 1. VHS Circuit Adjustment

#### 1-1. Servo Circuit

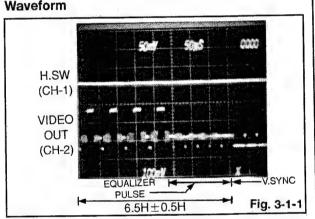
#### 1-1-1. PG Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT	
PLAYBACK	6.5H±0.5H (1H=64.0µsec)	TP201 (H.SW) TP202 (V.Out terminal)	VR201	

#### Procedure:

- a. Connect CH-1 of oscilloscope to TP201 (H.SW) and CH-2 to TP202 (Video Out terminal).
- b. Playback a VHS PAL SP test tape.
- c. Trigger the complex Video signal to CH-1 H.SW, and adjust VR201 so that the distance from switching point of H.SW signal to the starting point of vertical synchronized signal is 6.5H±  $0.5H (416 \pm 32 \mu sec)$ .

#### Waveform



#### 1-2. Audio Circuit

#### 1-2-1. Record Bias Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
RECORD (SP)	2.5±0.1mV	R473 Both Terminal	VR403

#### Procedure:

- a. Connect (+), (-) terminal of Level Meter to both terminals R473.: TP403 (+), TP404 (-)
- b. Loading the recording tape and record.
- c. Adjust VR403 so that the oscillation voltage fit to specification.

#### 1-2-2. VCO (Record Current Frequency) Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
AV/EE	1.4MHz±5kHz	IC402 Pin ((TP401)	VR401
(without signal)	1.8MHz±5kHz	IC402 Pin ((TP402)	VR402

#### Procedure:

- a. Disconnect the P4904 connector Ass'y from VHS Main circuit board.
- b. Connect the P4904 Pin (4) to the P4904 Pin (5).
- c. Connect the Frequency Counter to IC402 Pin (49) (TP401) and adjust VR401 so that the Frequency Counter is 1.4MHz±5kHz.
- d. Connect the Frequency Counter to IC402 Pin (2) (TP402) and adjust VR402 so that the Frequency Counter is 1.8MHz±5kHz.

#### Reference)

The set and the Frequency Counter should be connected with 1:1 probe.

#### 1-3. Tuner/IF Circuit

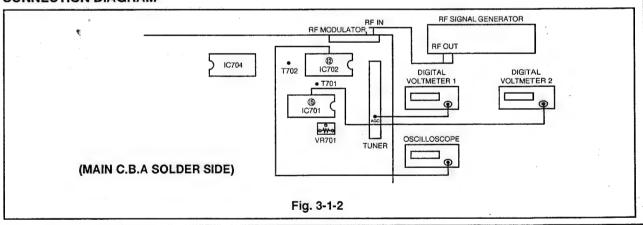
#### 1-3-1. AFC Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
CH-11 (217.25MHz) PAL B/G Reception	DC 2.5V±0.1V	IC701 Pin (5) (AFC TP)	T701

#### Procedure:

- a. Connect as shown in Fig. 3-1-2.
- b. Receive the CH-11 (217.25MHz, strength of RF electric field :  $70dB\mu V$ ).
- c. Adjust T701 so that the Digital voltmeter 2 is DC  $2.5\pm0.1V$ .

#### **CONNECTION DIAGRAM**



#### 1-3-2. RF AGC Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
CH-11 (217.25MHz) Normal Reception	DC 5.5±0.1V	Tuner AGC Terminal (AGC TP701)	VR701

#### Procedure:

- a. Connect as shown in Fig. 3-1-2.
- b. Receive the CH-11 (217.25MHz, strength of RF electric field :  $70dB\mu V$ ).
- Adjust VR701 so that the Digital voltmeter 1 is DC 5.5±0.1V.

#### 1-3-3. SIF Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
CH-11 (217.25MHz) Normal Reception	Refer to waveform	IC702 Pin (2) (SIF TP703)	T702

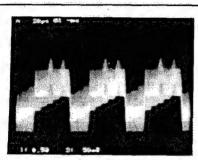
#### Procedure:

- a. Connect as shown in Fig. 3-1-2.
- b. Receive the CH-11 (217.25MHz, strength of RF electric field :  $70dB\mu V$ ).
- c. Adjust T702 so that the waveform of oscilloscope is as shown in Fig. 3-1-3.

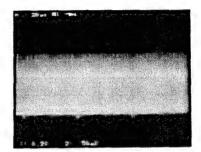
d. Setting mode of oscilloscope

Time: 20µsec. Voltage: 0.5V.

#### Waveform



Before Adjustment



After Adjustment

Fig. 3-1-3

#### \*Caution in testing

- 1. When practing this adjustment, adjust after more than 10minutes with TV set turning on.
- 2. Adjust after completing itself test of measuring apparatus.
- 3. Sweep OSC marker frequency is followed by Table 1.

#### \*Abbreviation

- · APC : Adjacent Picture Carrier
- SIF : Sound Intermediate Frequency
- CIF: Color Intermediate Frequency
- · CEN: Center Frequency
- PIF : Picture Intermediate Frequency
- · ASC: Adjacent Sound Carrier

#### **Table 1 Frequency Table**

(MHz)

BROADCASTING SYSTEM	ADJUSTMENT MARKER FREQUENCY					
	APC	SIF	CIF	CEN	PIF	ASC
PAL B/G	31.90	33.40	34.47	36.00	38.90	40.40

# 2. 8mm Circuit Adjustment

#### 2-1. Servo Circuit

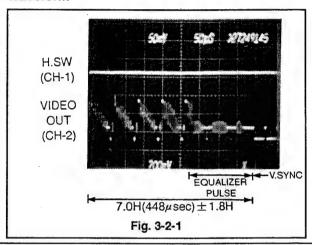
#### 2-1-1. PG Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK	7H±1.8H (1H=64.0⊭sec)	P2814 Pin (3) (H.SW) PV402 Pin (1) (V.Out terminal)	VR202

#### Procedure:

- a. Connect CH-1 of oscilloscope to TP801 (P2814 Pin ③, H.SW) and CH-2 to TP802 (PV402 Pin ①, Video Out terminal).
- b. Playback a 8mm PAL SP test tape.
- c. Trigger the complex Video signal to CH-1 H.SW, and adjust VR202 so that the distance from switching point of H.SW signal to the starting point of vertical synchronized signal is 7H± 1.8H (448±115.2μsec).

#### Waveform



#### 2-2. Y/C Circuit

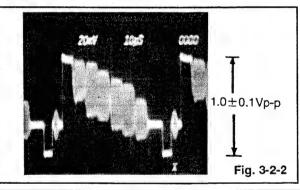
#### 2-2-1. Playback Output Level Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	1.0±0.1Vp-p	TP3A1 (8mm Video Out)	VR3A0

#### Procedure:

- a. Connect CH-1 of oscilloscope to TP3A1.
- b. Playback a 8mm PAL SP test tape (Color bar with 100% white signal).
- c. Adjust VR3A0 so that Video out level is  $1.0 \pm 0.1$ Vp-p.
- d. If only measurement point is the Video out Jack (SCART Jack), specification is 2±0.2Vp-p.

#### Waveform



#### 2-2-2. Color VCO Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)	DC 2.5±0.1V	TP3A2	FL3A1

#### Procedure:

- a. Connect CH-1 of oscilloscope to TP3A2.
- b. Playback a 8mm PAL SP test tape (Color bar with 100% white signal).
- c. Adjust FL3A1 so that DC level is  $2.5\pm0.1V$ .

#### 2-3. Audio Circuit

#### 2-3-1. VCO Adjustment

MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
	DC 2.05±0.1V	TP4A2	VR4A0
STOP		TP4A4	VR4A4

#### Procedure:

- a. Connect the Digital Multimeter to TP4A2 and adjust VR4A0 so that the Digital Multimeter is DC2.05 $\pm$ 0.1V.
- b. Connect the Digital Multimeter to TP4A4 and adjust VR4A4 so that the Digital Multimeter is DC2.05±0.1V.

## 2-3-2. Deviation (L) Adjustment

2-3-2. Deviation (L) Adjustment				
MODE	MODE SPECIFICATION		ADJUSTMENT POINT	
PLAYBACK (SP)	0±0.5dBm	SCART AUDIO (L) OUT	VR4A1	
PLATBACK (OF)	0			

#### Procedure:

- a. Connect the (+) terminal of Level Meter to SCART Audio (L) Out.
- b. Playback a 8mm PAL Mono test tape.
- c. Adjust VR4A1 so that level is  $0\pm0.5$ dBm.

#### 2-3-3. Deviation (R) and Matrix Adjustment

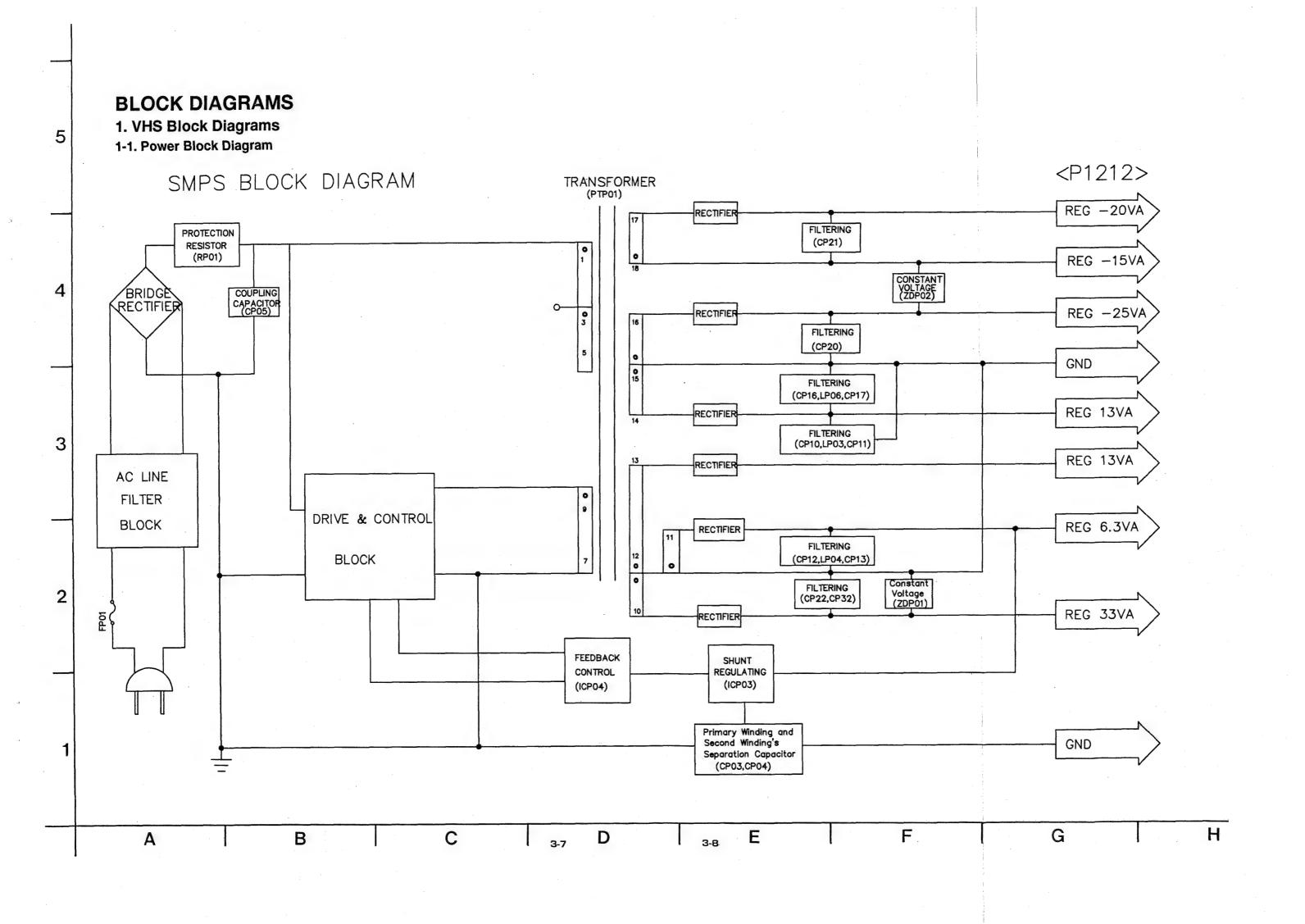
MODE	SPECIFICATION	MEASUREMENT POINT	ADJUSTMENT POINT
PLAYBACK (SP)		SCART AUDIO (R) OUT	VR4A3
	0±3dBm	SCART AUDIO (L), (R) OUT	VR4A2

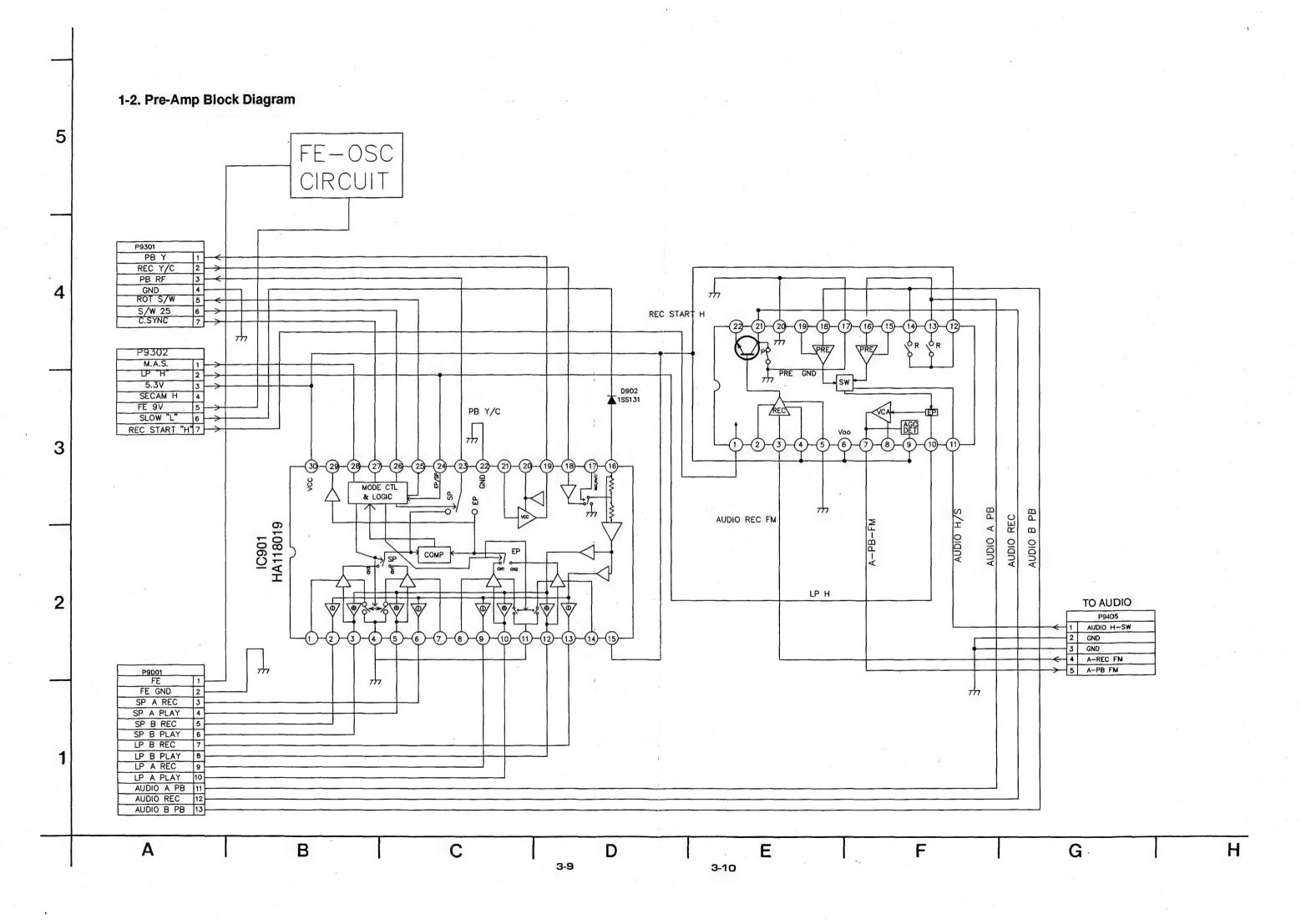
#### Procedure:

- a. Connect the (+) terminal of Level Meter to SCART Audio (R) Out.
- b. Playback a 8mm PAL Stereo test tape.
- c. Adjust VR4A3 so that level is  $0\pm3$ dBm.
- d. And then, connect the CH-1 of oscilloscope to SCART Audio (L) Out.
- e. Connect the CH-2 of oscilloscope to SCART Audio (R) Out.
- f. Adjust VR4A2 so that the separation of stereo is done well.

# **MEMO**

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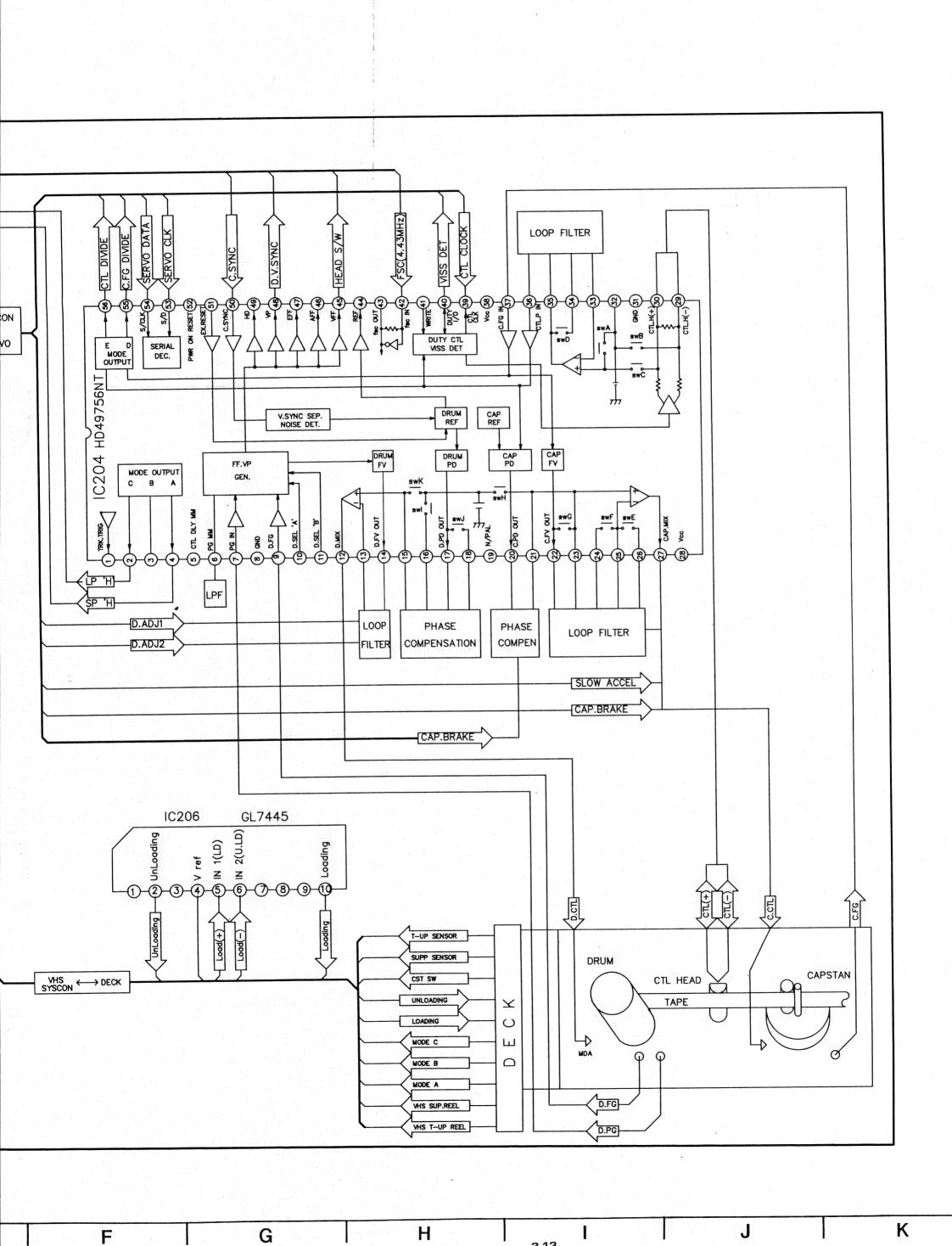
C

D

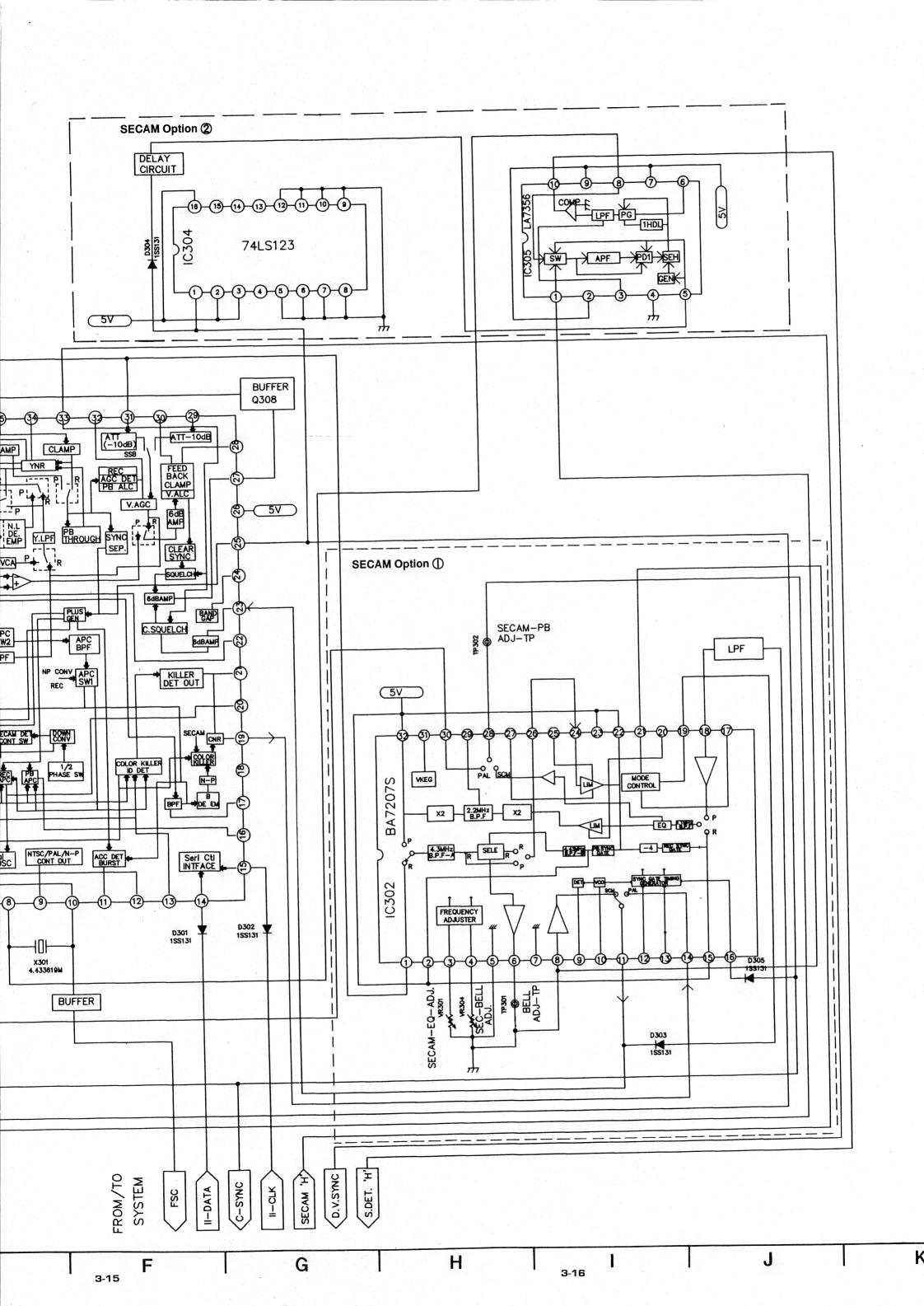
E

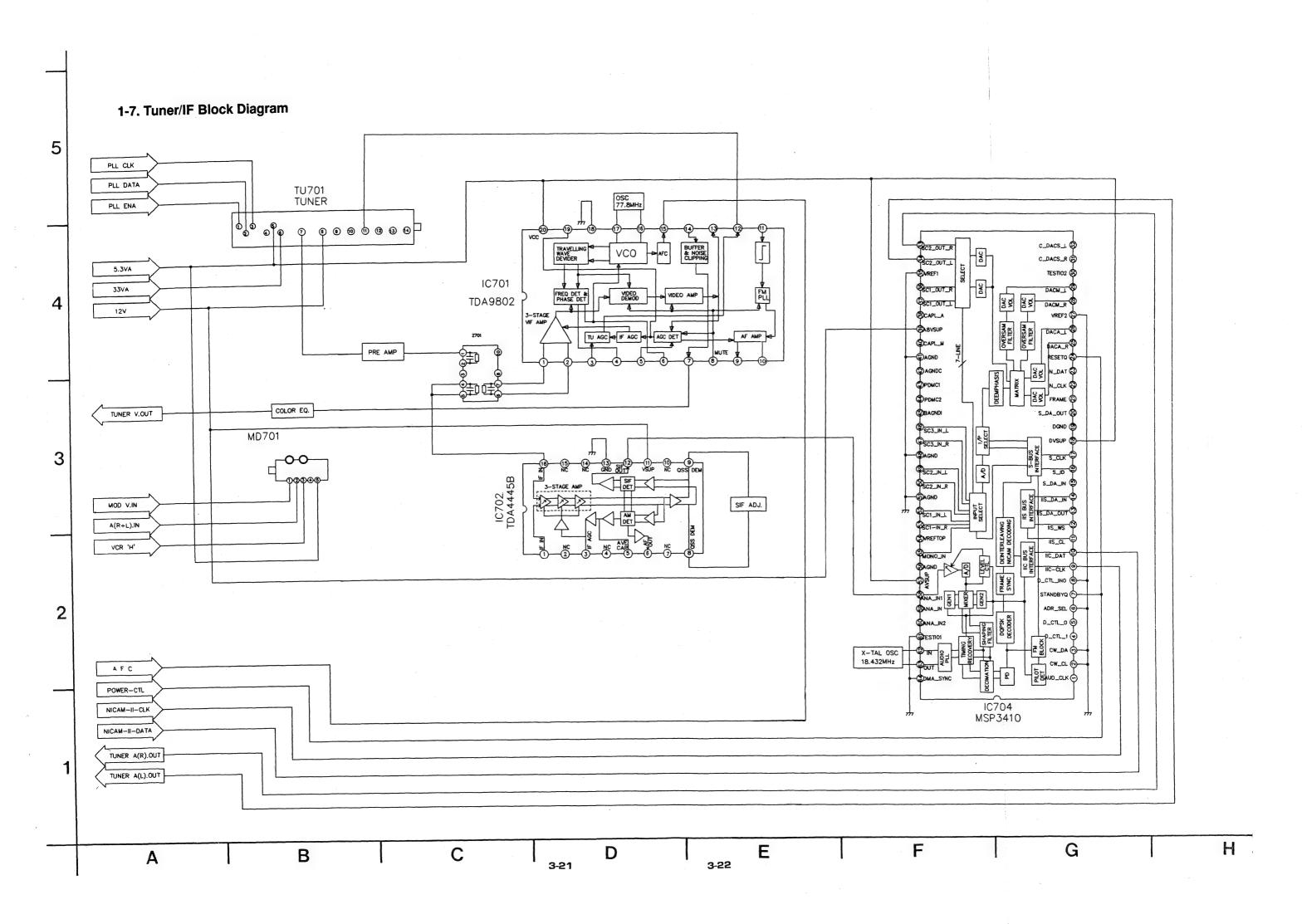
A

B

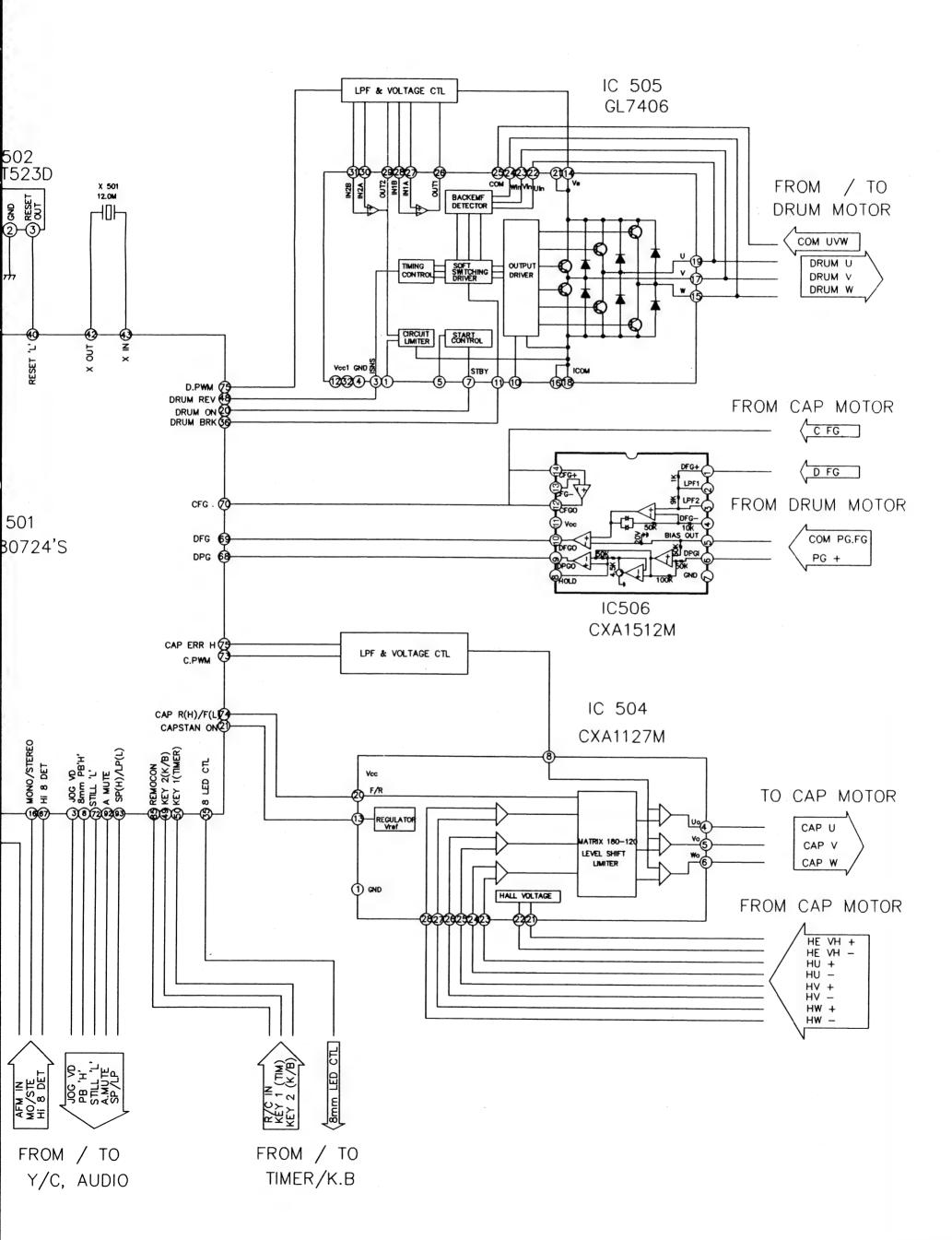


3-13

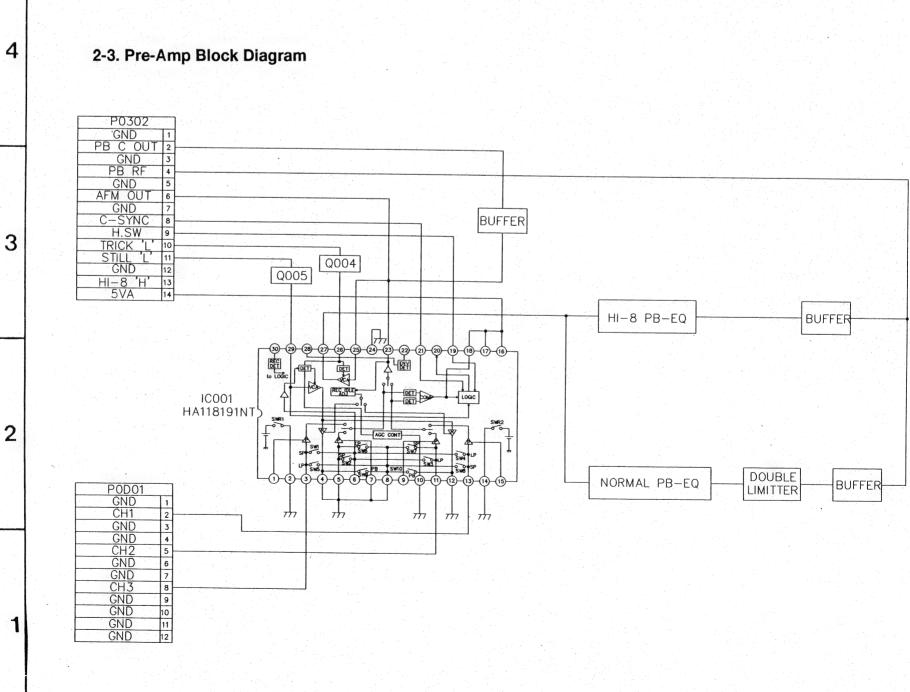




8 2. 8mm Block Diagrams 2-1. Main System (Servo, Syscon) Block Diagram 7 IC508 XR10823 IC502 PST523D -(3)--(13)-220 REFERANCE DECODER CONTROL 6 BPF1 ANTIALIAS PREAME BPF2 ATF IN DATA DCLK SERIAL S-DAT PORT S\_CLK SEL 2 SEL 1 PROGRAMMABLE CLOG COUNTER SP'H'/LP'L' 5 **VIDEO** osc SP/LP CLOG DET IC 501 LEVEL CXP80724'S CONTROL SYSTEM SYNC
CS
SI
SO
SO
SO
HSW
DG
PG DLY 4 (1) F.LOAD(-) (12) F.LOAD(+) F.LOAD(-) FROM / TO LOAD VHS UNLOAD SYSTEM SYNC 8-CTL-CS 3 8-S-IN 8-S OUT 8-S-CLK 30 (5VA)-⑨ 8 IC503 9 9 9 2 2 00 12 5 3 LB1836M **₹ ₹** TO VHS 2 8 H/SW ADJ MODE 8 PG ADJ LOAD EL UN LOAD EL LOAD FROM DECK FROM / TO DECK Y/C, A Α В C D E F



F G H \_\_ I J K



C

3-28

D

E

A

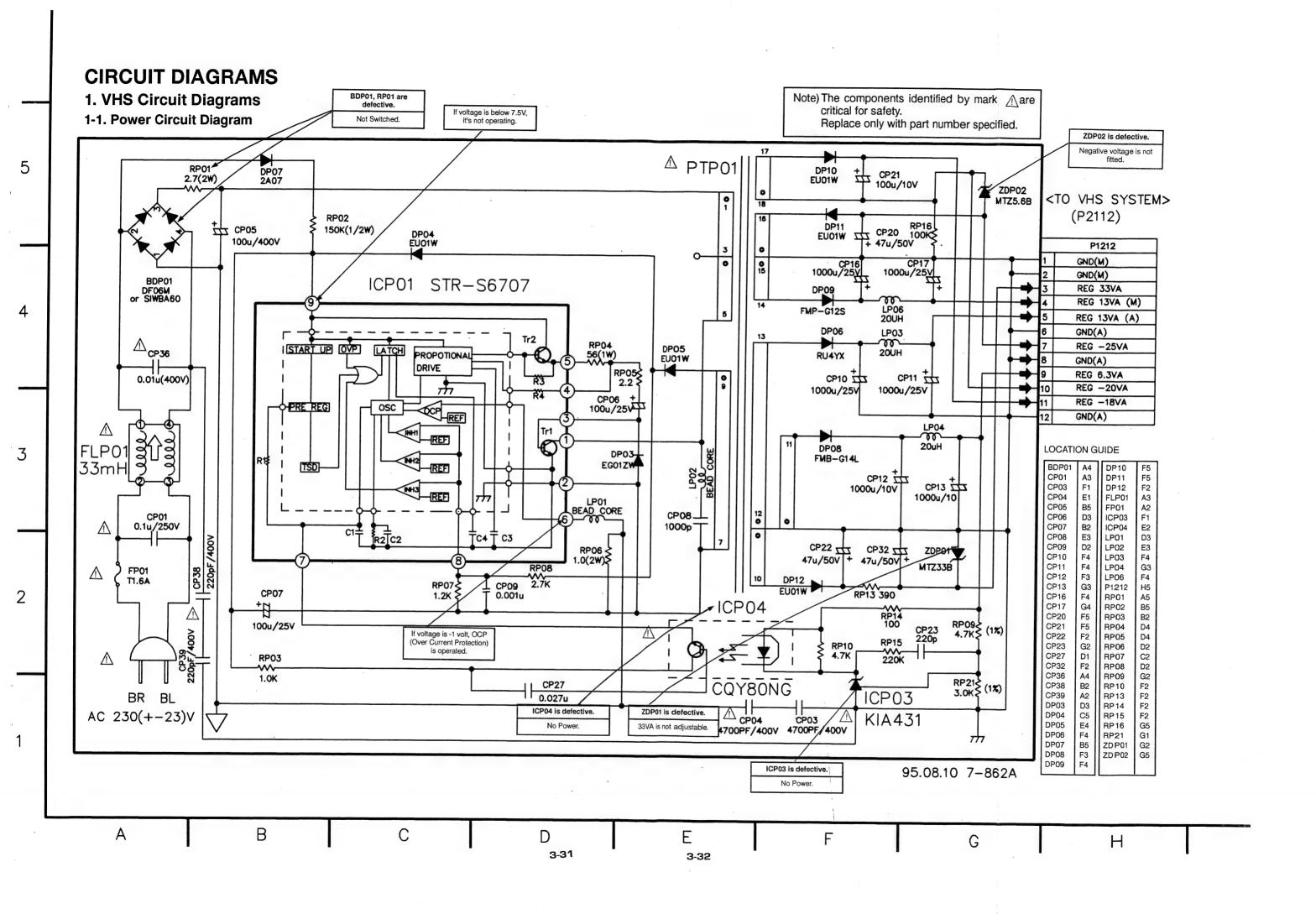
В

T

0

I

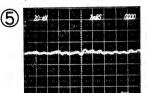
不



#### \* VHS System Waveform



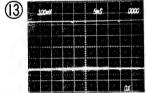
IC204 Pin ①
Tracking Trigger
(100mV/10msec)



IC204 Pin @ Capstan Control (20mV/2msec)



IC204 Pin ③
Capstan Frequency Generator Input (100mV/500µsec)



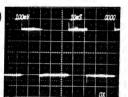
IC204 Pin ® C-SYNC Input terminal (100mV/5msec)



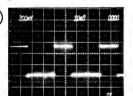
IC204 Pin ®
Control Count Down
Output terminal
(100mV/10msec)



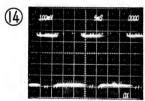
IC204 Pin ⑥
PG Mono-Multi
(100mV/2msec)



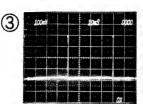
IC204 Pin <sup>(2)</sup>
Record Control (-)
(100mV/10msec)



IC204 Pin 39 Control Clock (200mV/10msec)



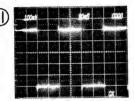
IC204 Pin 
Servo Data Input terminal (100mV/5msec)



IC204 Pin (7)
PG Input
(100mV/10msec)



IC204 Pin ③ Record Control (+) (100mV/10msec)



IC204 Pin 

Video Head Switching
Pulse (100mV/10msec)



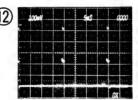
IC204 Pin 
Servo Clock Input terminal 
(100mV/5msec)



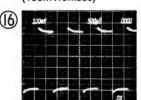
IC204 Pin ③ Drum Frequency Generator Input (100mV/2msec)



IC204 Pin (36)
Playback Control Pulse (50mV/10msec)



IC204 Pin 
Vertical Pulse (VP) (100mV/5msec)



IC204 Pin (®)
CFG (Capstan Frequency
Generator) Count Down
Output terminal
(100mV/500µsec)

### . VHS System IC Voltage Sheet

19 20

21

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26 27

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0.45 (0.20)

0.08 (0.20)

5.45 (5.46)

5.44 (5.16)

4,44 (0.00)

5.35 (5.34)

1.63 (1.20)

5.44 (5.43)

0.05 (0.26)

0.40 (0.30)

5.17 (0.00)

5.30 (5.30)

5.31 (5.30)

2.68 (2.68)

1.32 (0.55)

2.28 (3.86)

IC201 (M38185EEFP) Voltage [V] Voltage [V] 5.48 (5.46) Pin No. Pin No. 35 69 0.307 (4.67) 2.43 (2.40) 70 3 4.45 (4.53) 2.70 (2.71) 5.18 (5.25) 38 2.48 (2.50) 5 5.16 (5.23) 39 2.64 (2.66) 5.36 (0.00) 4.60 (4.60) 40 5.31 (5.30) 41 5.48 (5.46) 5.31 (5.32) 5.47 (5.46) 5.30 (5.32) 43 0.02 (5.46) 10 5.26 (5.23) 44 0.00 (0.00) 78 2.67 (2.61) 11 45 5.33 (0.00) 79 12 0.00 (0.00) 2.66 (5.27) 13 0.00 (0.00) 47 2.69 (2.70) 14 0.00 (0.00) 48 2.28 (5.33) 15 0.20 (0.20) 49 5.46 (5.43) 83 16 0.40 (0.40) 0.01 (0.00) 17 0.54 (0.55) 5.45 (0.00) 18 0.25 (0.24) 52 0.01 (1.86)

53

54

56

57

58

59

60

62

63

64

65

66

0.02 (5.43)

0.01 (5.45)

0.00 (0.00)

5.46 (0.00)

0.00 (5.46)

0.00 (0.00)

0.00 (0.00)

0.00 (0.00)

0.00 (5.44)

0.00 (5.44)

5.47 (5.45)

1.00 (1.00)

0.00 (0.00)

(0.00)

0.00 (0.00)

<ul> <li>VHS System</li> </ul>	TR Voltage Sheet
--------------------------------	------------------

PB (REC) [V]

Voltage [V]

0.00 (0.00)

0.00 (0.00)

0.00 (0.00)

0.00 (0.00)

0.00 (0.00)

5.45 (5.45)

0.11 (0.11)

3.49 (3.47)

0.02 (0.00)

0.01 (0.69)

4.98 (5.13)

4.25 (4.32)

5.47 (0.00)

0.58 (5.43)

5.47 (5.43)

5.41 (5.37)

5.40 (5.38)

0.00 (0.00)

0.00 (0.00)

0.00 (0.00)

5.47 (3.53)

0.00 (0.00)

0.00 (0.00)

5.38 (5.37)

1.16 (0.42)

0.00 (0.00)

0.00 (0.10)

2.65 (0.22)

0.00 (0.00)

0.00 (0.00)

(PB/REC mode)

Port TR No.	Emitter	Collector	Base
Q202	0.00/0.00	1.33/0.00	0.00/0.00
Q203	0.00/0.00	0.00/0.00	5.40/5.34
Q204	0.64/0.64	5.28/5.23	0.98/0.96
Q205	0.65/0.65	1.32/1.33	0.00/1.23
Q206	0.00/0.00	5.29/5.28	0.00/0.00
Q208	0.00/0.00	2.71/2.69	0.00/0.00
Q209	5.32/5.28	1.13/1.15	5.41/5.37
Q210	5.29/5.28	1,15/1.15	5.41/5.37
Q211	5.12/5.10	2.72/2.70	5.40/5.37
Q212	0.00/0.00	0.12/0.12	0.64/0.64
Q213	0.92/0.95	3.60/3.59	1.47/1.46
Q217	0.00/0.00	5.19/5.20	4.83/4.80
Q218	0.00/0.00	0.00/4.77	4.80/4.77
Q221	0.00/0:00	0.00/0.00	5.40/5.40
Q222	6.13/6.12	5.92/5.90	0.00/5.34
Q223	0.00/0.00	0.10/0.10	5.39/5.37
Q224	13.34/13.33	13.25/13.23	8.51/0.00
Q225	0.92/0.95	3.60/3.59	1.47/1.46

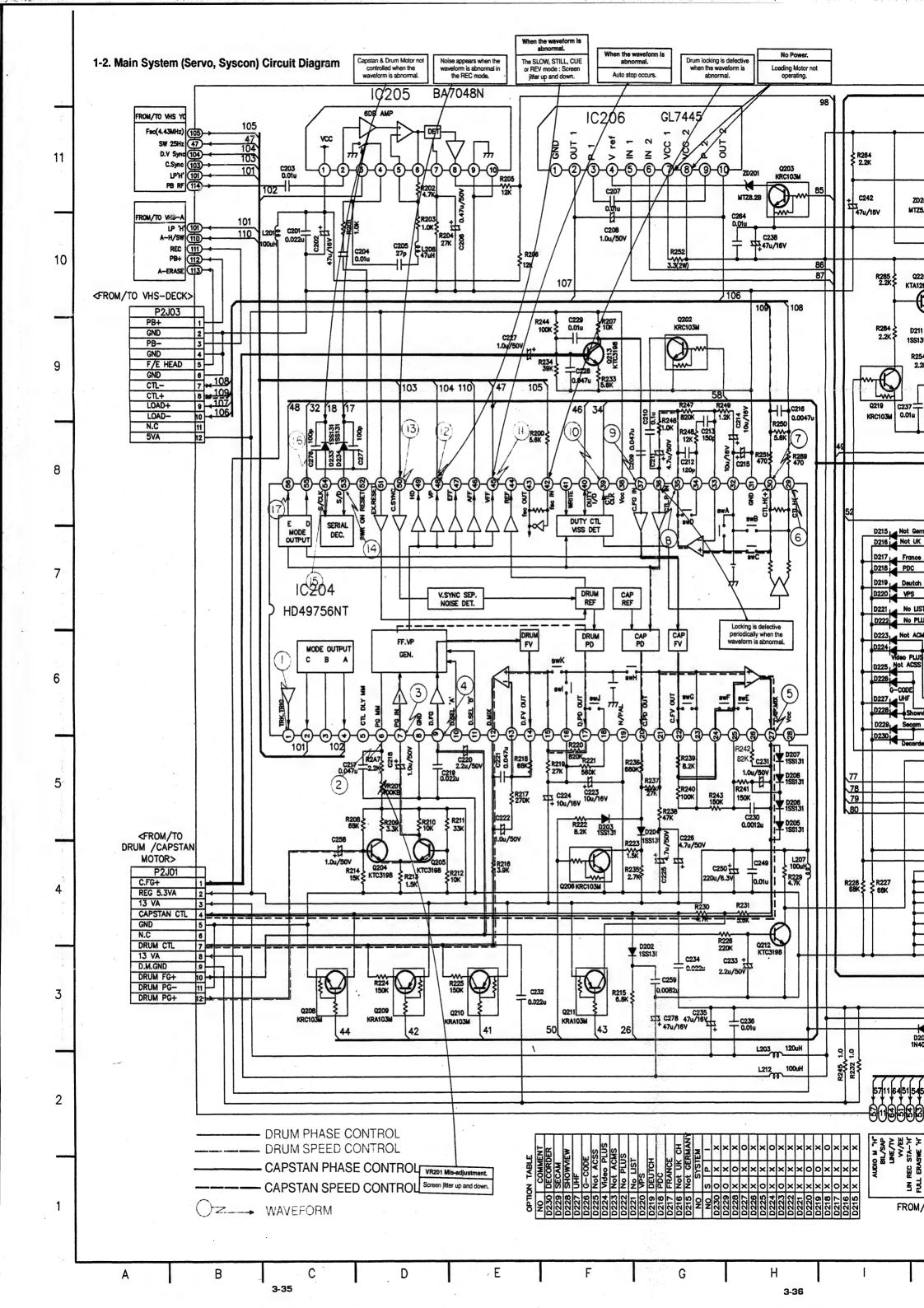
																									P	B (R	EC)
2	2.5	0.7	1.1	3.8	5	0.2	0	0	2.5	2.5	2.5	2.6	2.6	2.6	0	5	2	5	2.4	2.5	2.5	2.5	2.5	2.5	0	2.5	2.5
(5)	(2.5	(0.7)	(1.1)	(3.8)	(5)	(0.9)	(0)	(0)	(2.5)	(0)	(2.5)	(2.6)	(2.6)	(2.6)	(0)	(5)	(3.6)	(5)	(2.4)	(2.5)	(2.5)	(2.5)	(2.5)	(2.5)	(0)	(2.7)	(2.1)
	55					50					45					40					35					30	
	١									20	204 (HD49756NT)									- 1							
	,									10	52	04	(П	U4	91	90	I VI	)									- 1
1		5 10							10				15			20				25							
3.6	0	0	5	0	0.2	2.1	0	2.7	2.7	2.7	1.4	2.5	2.5	2.5	2.5	2.5	2.4	0	2.5	2.5	2.5	2.5	2.5	2.5	2.7	2.7	5
(3.6	(0)	(0)	(5)	(0)	(0.2)	(2.1)	(0)	(2.7)	(2.7)	(2.7)	(1.4)	(2.5)	(2.5)	(2.5)	(2.5)	(2.5)	(2.4)	(0)	(2.5)	(2.5)	(2.5)	(2.5)	(2.5)	(2.5)	(2.6)	(2.7)	(5)

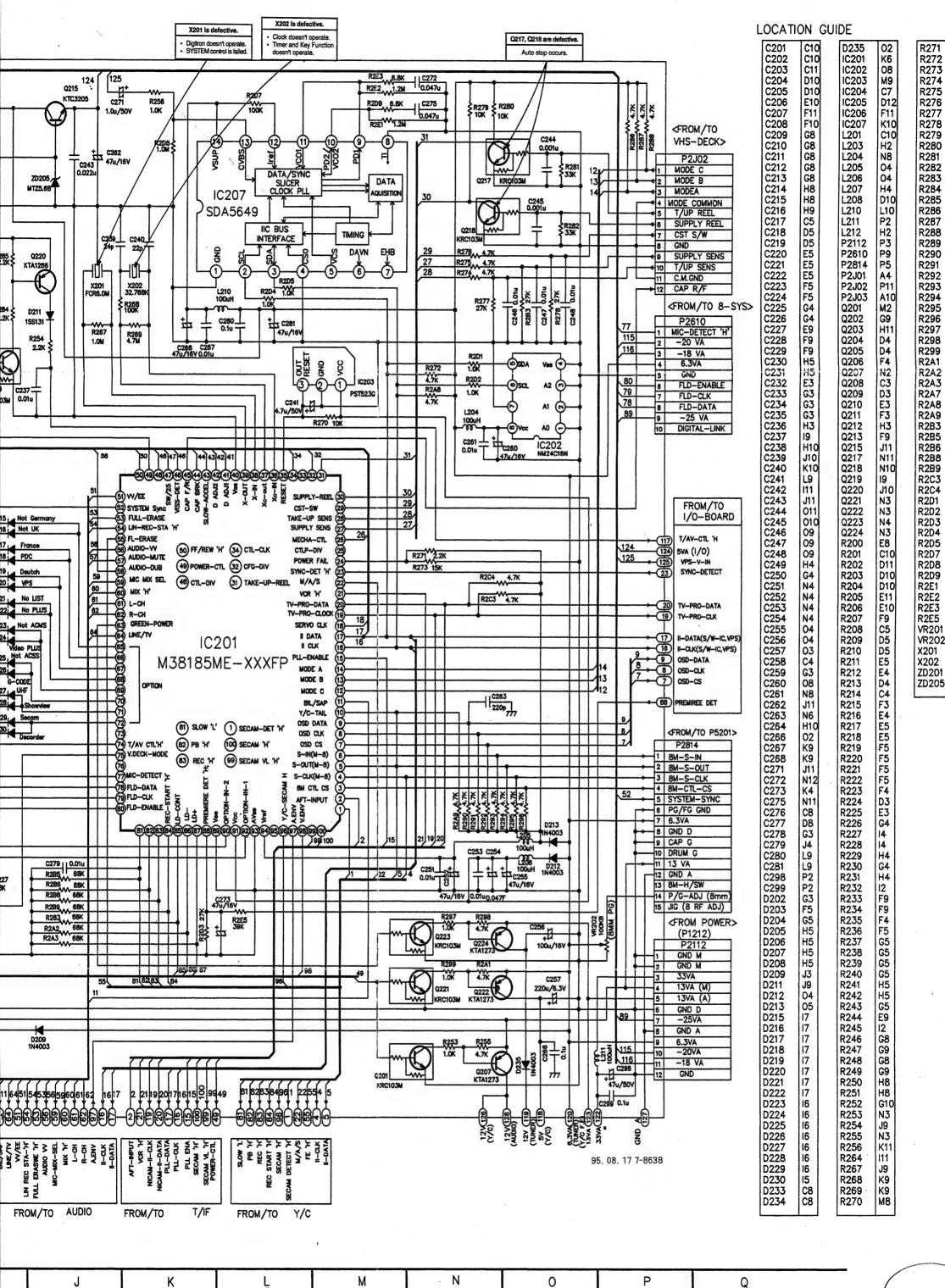
91

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100





3-37

3-38

R273

R274

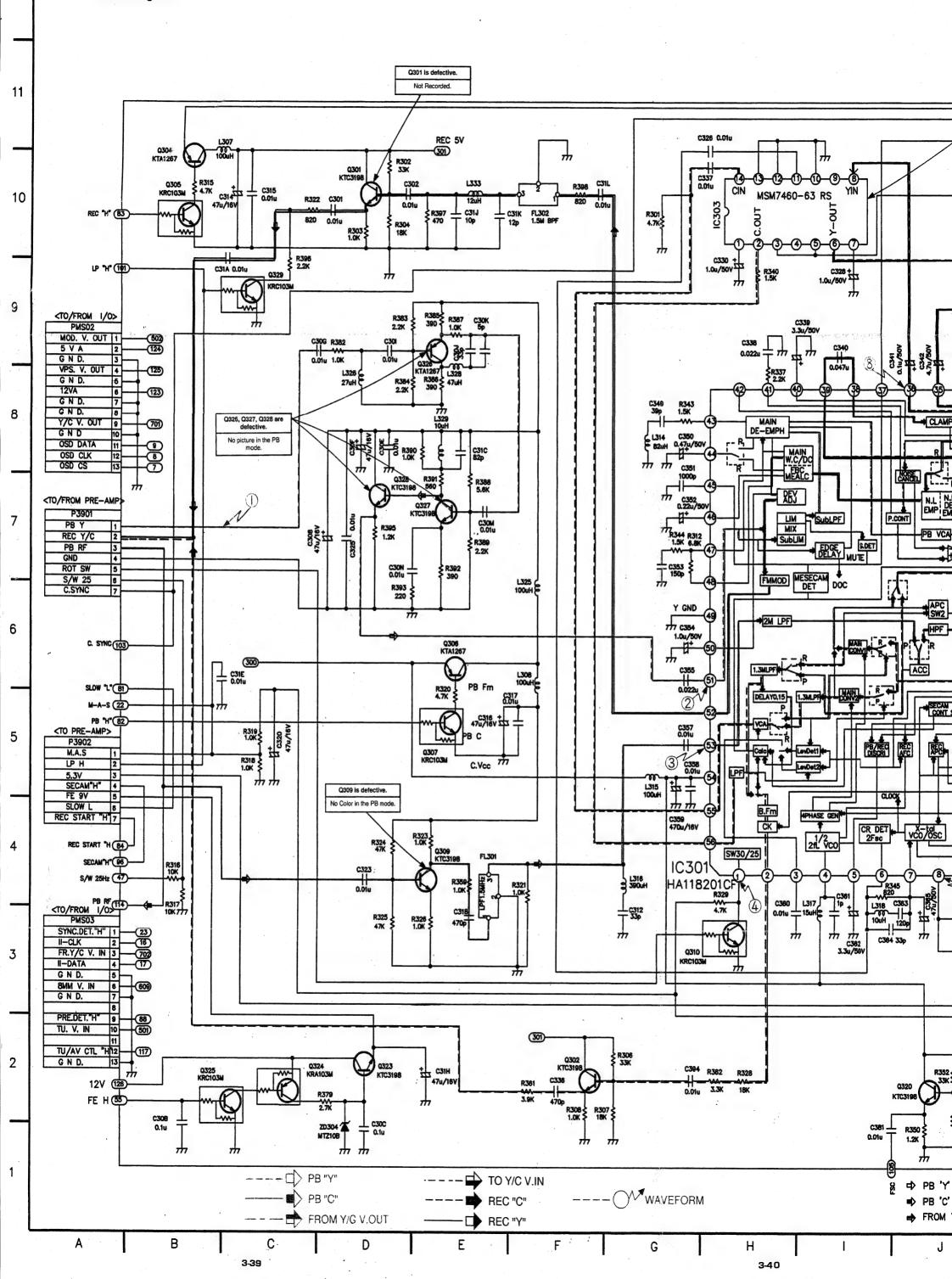
R275

R276

R277

R278

R279



LOCATION GUIDE L319 L321 L322 C301 C302 C303 M76556888M10017A593102B10 BE57E3220M3 J2222B97T7901010 D102F2220BB4455555F410 B44MM1087B968674M45J2J222EF122999 IC303, Q312, Q313 are D10 N6 C7 B2 D1 D8 D8 C9 D9 E9 C9 D9 E7 D7 G3 B10 C5 E5 E3 B9 E8 C6 E2 E10 C5 D4 D7 G11 L325 L326 L328 L329 L331 L333 L334 P3901 P3902 C308 C30B C30C C30F C30G C30J C30S C30L C30M C312 C314 C315 C316 C317 C318 C31A C31C C31H C31L C31L C31L L334 PMS02 PMS03 Q301 Q302 Q304 Q305 Q306 Q307 Q308 Q309 Q310 Q311 Q312 Q313 Q315 Q320 Q323 Q324 Q325 Q326 Q327 Q312 C329 + 47u/16V L311 100uH 0.014 1.0K KTC3198 Q313 KTA126 L331 m 68uH <u>井</u>井 C30L 0.01u 68uH C333. 82p -C374-24p R331 1.2K C375 47u/16V C343 3.3u/50V C344 2.2u/50V 777 C345 TT C368 Ou/16V + 0.47u/50V C320 C323 C324 C325 C326 D308 C335 118) 5V L313 D309 1N4003 \$\$.¥ R311 C327 K10 Q328 Q329 R301 R302 R303 R304 R306 R307 ATT (-10dB) ATT-10dB C369 27K C328 19 CLAMP CLAMP C329 C330 C332 C333 C334 K10 FEED BACK CLAMP V.ALC H9 L9 M8 M9 F2 G10 H9 H9 C370 470u/16V V.AGC C335 C336 C337 C338 C339 C340 C341 9 R336 120 丁 C371 THROUGH SYNC Y.LPF SEP. THC SYNC Q308 PB VCA KTA1267 SQUELCH C372 777 10u/16V C342 C343 C344 C345 C349 J9 J9 K9 G8 G8 G7 G G6 G G5 G4 H4 G3 J G3 G5 L9 M8 M7 M7 6dBAMP C373 C.SQUELCH APC SW2 BdBAMF APC C350 C351 C352 C353 C354 C355 C357 C358 C360 C361 C362 C363 C364 C365 NP CONV APC L321 6 220uH KILLER DET OUT R313 220 ACC C303 -C377 0.0224 777 CONV COLOR KILLER ID DET 777 C378 18p N-P C366 BPF C367 C368 C369 C370 C371 C372 NTSC/PAL/N-P CONT OUT vco/osc ACC DET BURST Seri Cti INTFACE C373 C374 C375 C376 C377 N7 M9 N10 Q315 KRC103M M6 M6 M5 M4 M4 **(**5) C378 C379 C380 X301 0.1u C367 0.068u  $\frac{1}{m}$ ii G2 R382 R383 C381 C398 C399 D301 D302 R384 R385 R386 R387 R388 D8 E9 E8 E9 E7 D8 E7 D6 D7 C9 E10 F10 М6 3212 L302 150uH D307 09 R389 R390 R391 R392 09 P8 E4 G4 H10 D308 D309 FL301 IC301 IC303 L302 L307 L308 L311 L312 R353 ≥ R354 10K ≥ 10K C399 0.01u (31) W H R393 Q311 KRC103M J3 B11 F6 O10 R395 D301 D302 R396 R397 R398 155131 L10 M8 G8 G5 G4 I4 J4 D1 X301 L313 L314 L315 L316 L317 ZD304 R350 § 1.2K L318 95.08.10 7-864B TO Y/C V.IN PB 'Y' ➡ PB 'C' REC 'C' ⇒ FROM Y/C V.OUT ⇒ REC 'Y' N 0 P Q M

3-42

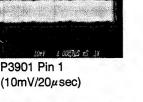
### VHS Y/C Waveform



P3901 Pin 1



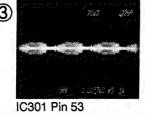
(10mV/20µsec)



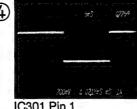
IC301 Pin 8 (50mV/200nsec)



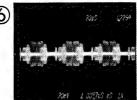
(50mV/5msec)



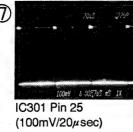
(5mV/20µsec)



IC301 Pin 1 (200mV/5msec)



IC301 Pin 19 (20mV/20µsec)



IC301 Pin 36 (20mV/20µsec)

Video Out Terminal (100mV/20µsec)

## VHS Y/C TR Voltage Sheet

(PB/REC mode)

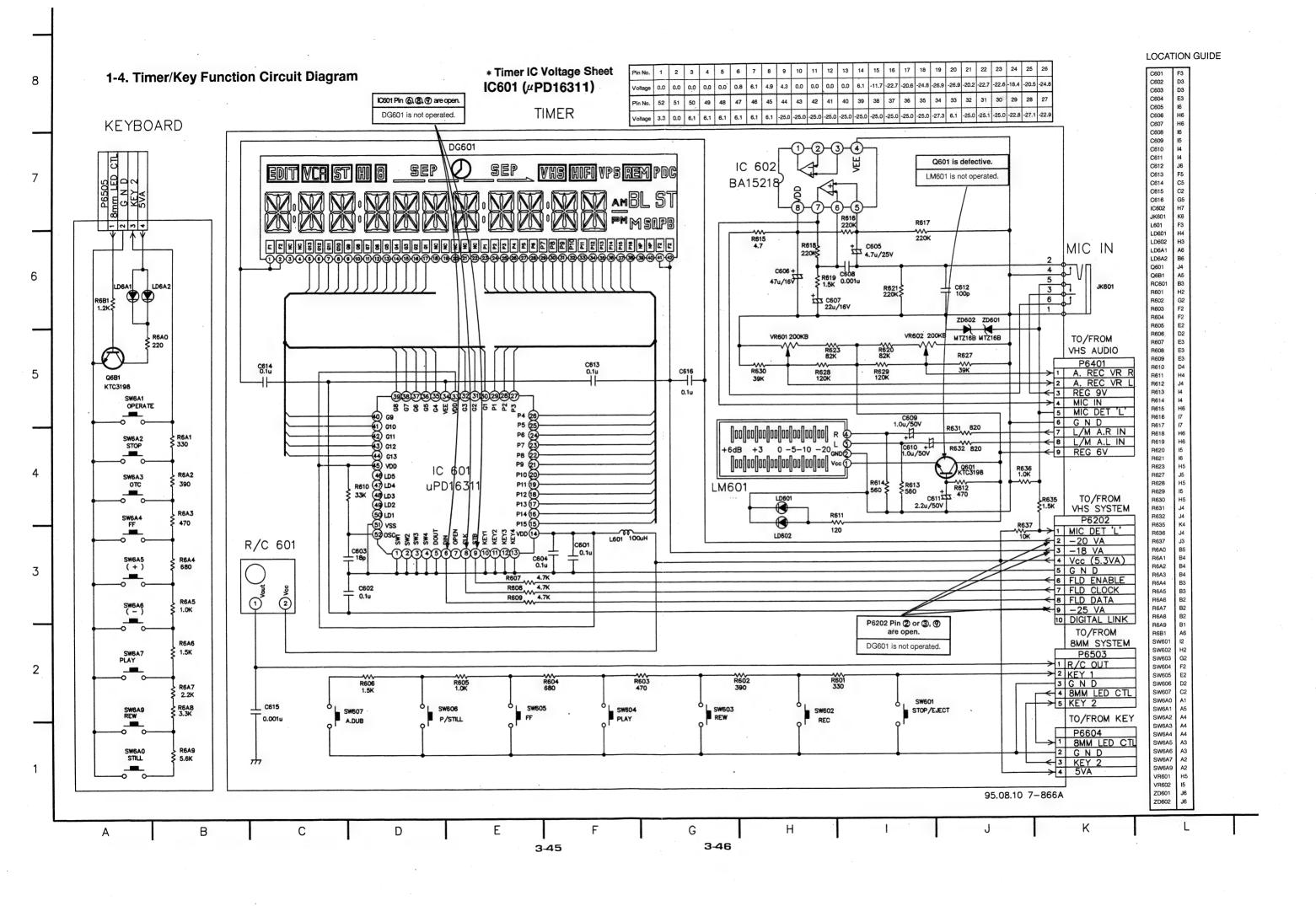
Port TR No.	Emitter	Collector	Base
Q301	0/1.09	0/4.9	0/1.66
Q308	2.97/2.21	0/0	0.02/0.1
Q312	0.04/3.4	4.89/0.04	3.66/0.05
Q313	1.51/1.7	0/0	2.14/2.28
Q326	3.15/0	1.76/0	2.49/0
Q327	1.34/0	2.57/0	0.74/0
Q328	1.97/0	4.9/0	2.58/0

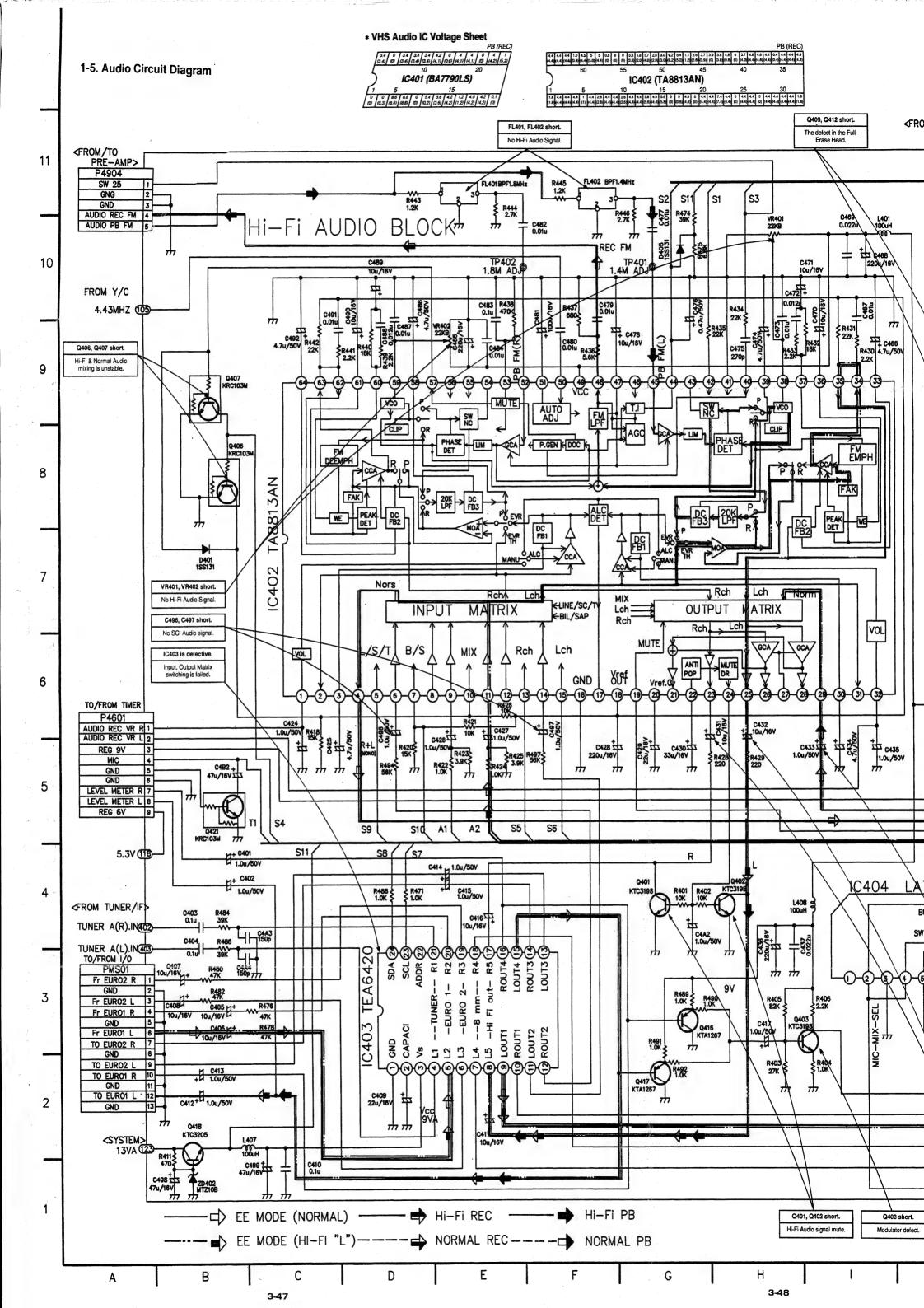
### \* VHS Y/C IC Voltage Sheet

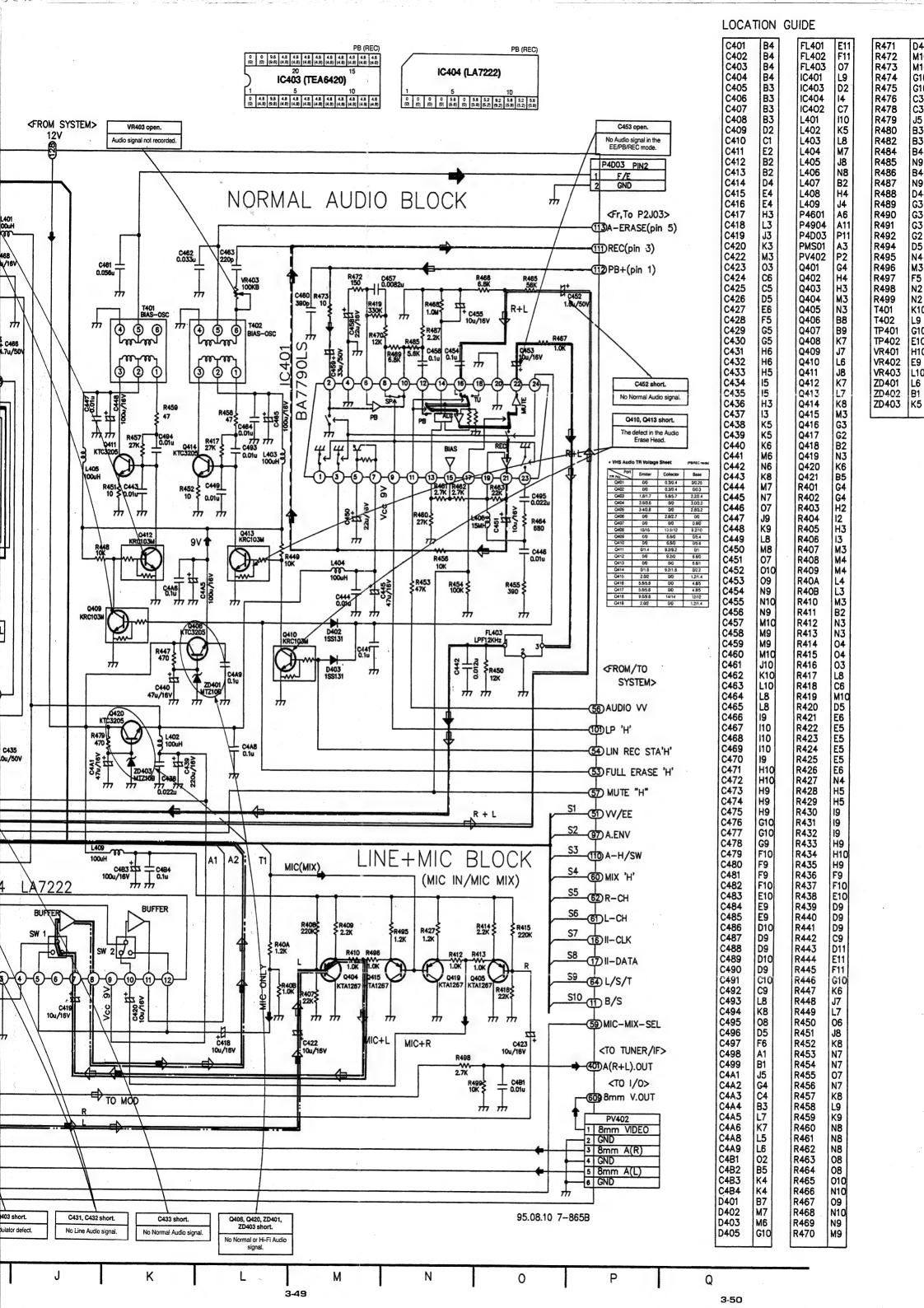
PB (REC)

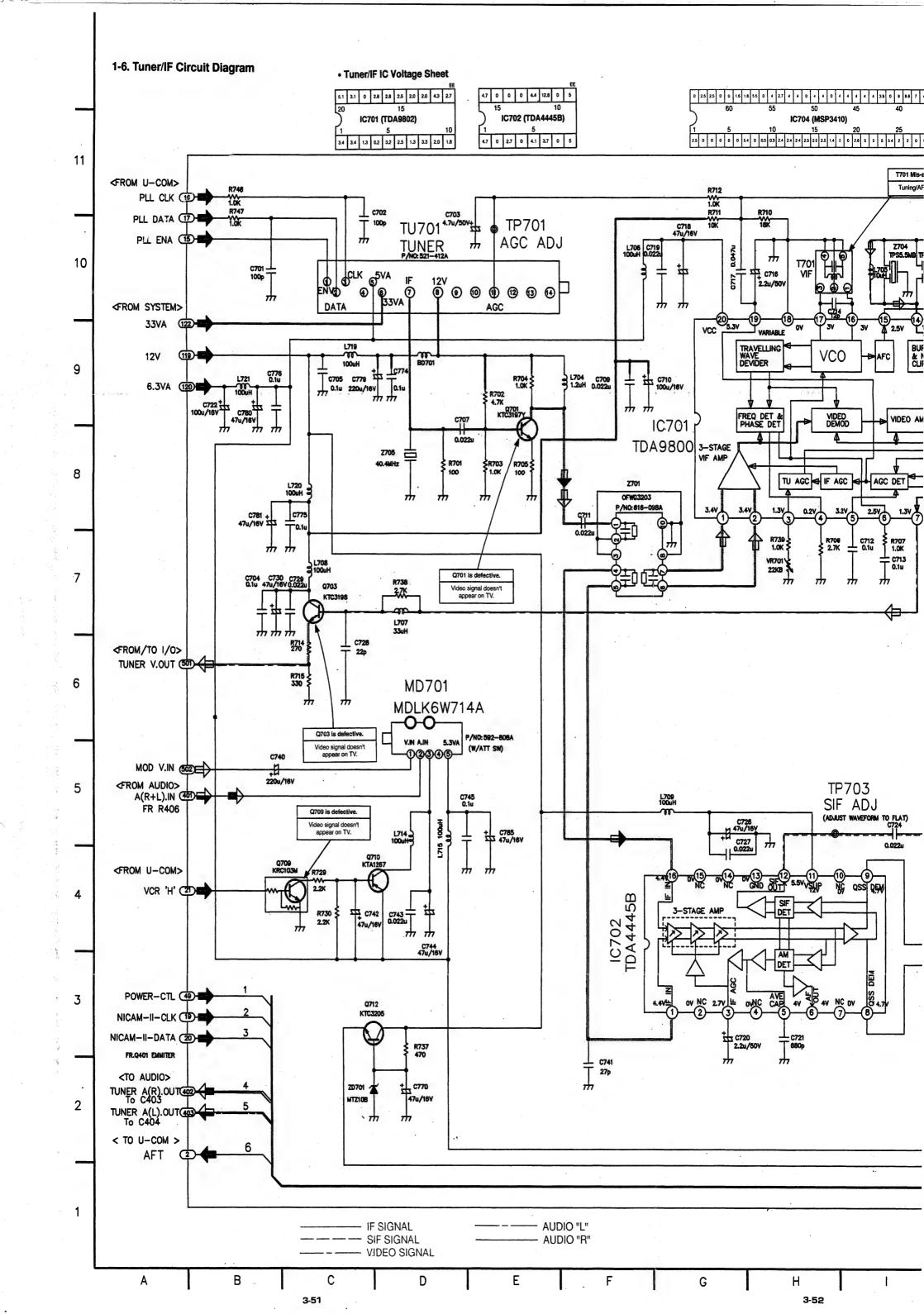
															(ILC)
	0.32 (0.05)	0.27 (0.05)	1.62 (0.06)	0.28 (2.27)	0.1 (2.88)	0.21 (0.27)	2.43 (2.21)	3.08	1.42 (1.46)	0.06	1.70 (2.23)	3.01 (3.02)	2.8 (3.06)	3.03 (3.05)	
0 (1.9)			40					35					30		2.79 (2.28)
2.72 (2.77)															2.38 (1.62)
0.08	45														4.7 (4.67)
1.88 (1.93)														25	0.39 (0.39)
1.43 (2.04)										٠					0.02 (2.84)
1.44 (0.04)															1.94 (1.95)
0.01					IC3	01	(НА	118	201	CF)					4.62 (4.6)
0.01 (1.9)	50														0.13 (4.54)
2.79 (0.87)														20	0.25 (2.7)
4.23 (0.04)															2.14 (2.13)
0.08 (2.15)															0 (0.07)
0.08 (4.8)															2.86 (0.08)
4.82 (2.89)	55.														2.80 (0.09)
4.06 (4.01)	1	_			5			-		10				15	4.73 (4.75)
	2.44 (0.07)	0 (2.12)	3.57 (3.48)	4.86 (4.81)	2.79 (2.96)	2.82 (2.8)	2.83 (2.8)	2.17 (2.16)	0.09 (0.08)	3.20 (3.2)		2.216 (2.16)	1.29 (2.42)	4.73 (4.6)	

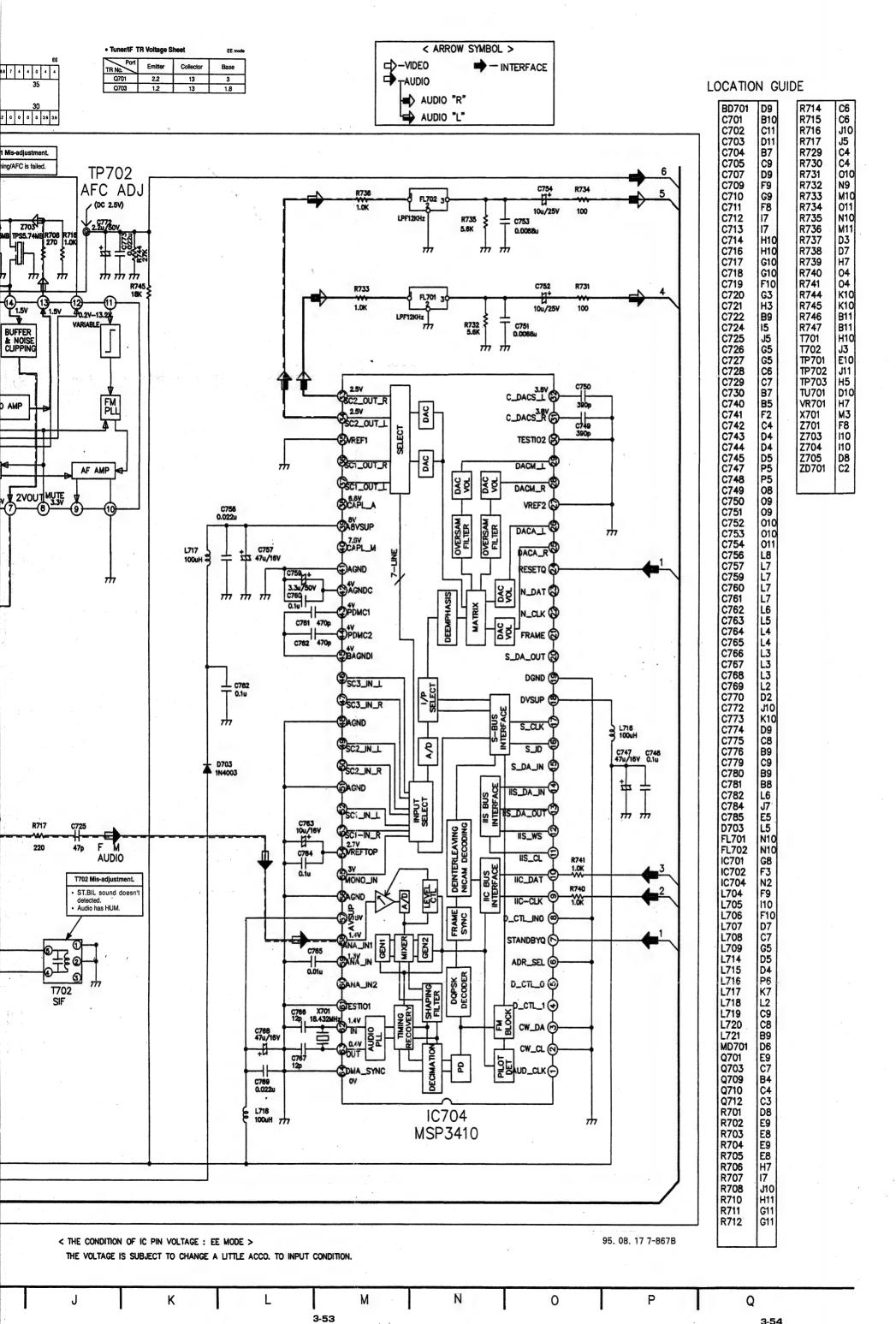
						(REC)
0.03	0	0	2.5 (2.48)	0	0.05	1.77
(1.42)	(0)	(0)	(2.48)	(0)	(0.05)	(1.69)
				10		
)	IC3	03 (	(MS	M74	160)	
1			•	5	•	
0.05	4.12	4.91	0.05	4.87	3.67	1.96
(0.07)	(4)	(4.85)	0.05 (0.06)	(4.83)	(3.99)	(1.83)











Ε

F

D

В

Α

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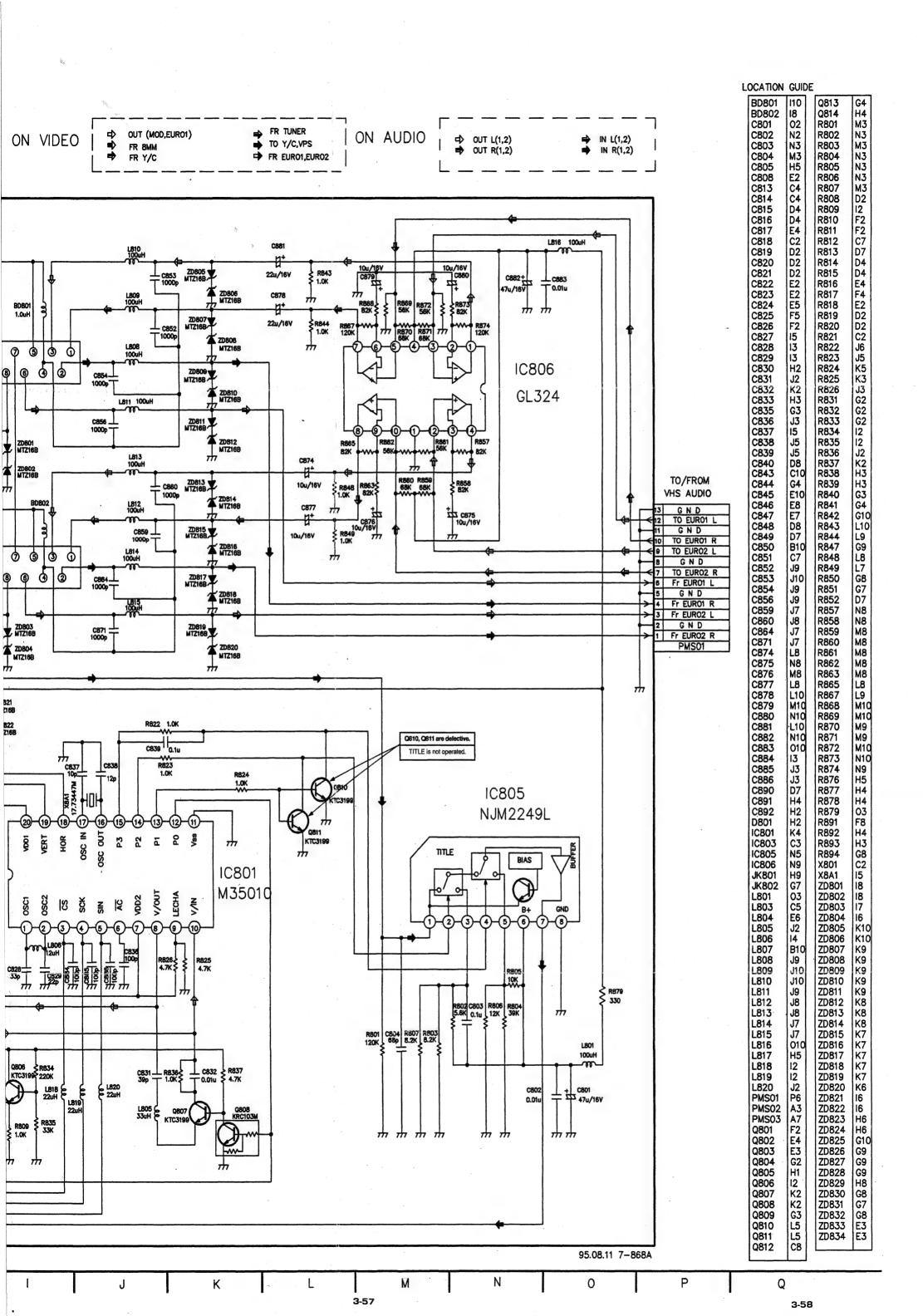
3-55

C

3-56

Н

G



D

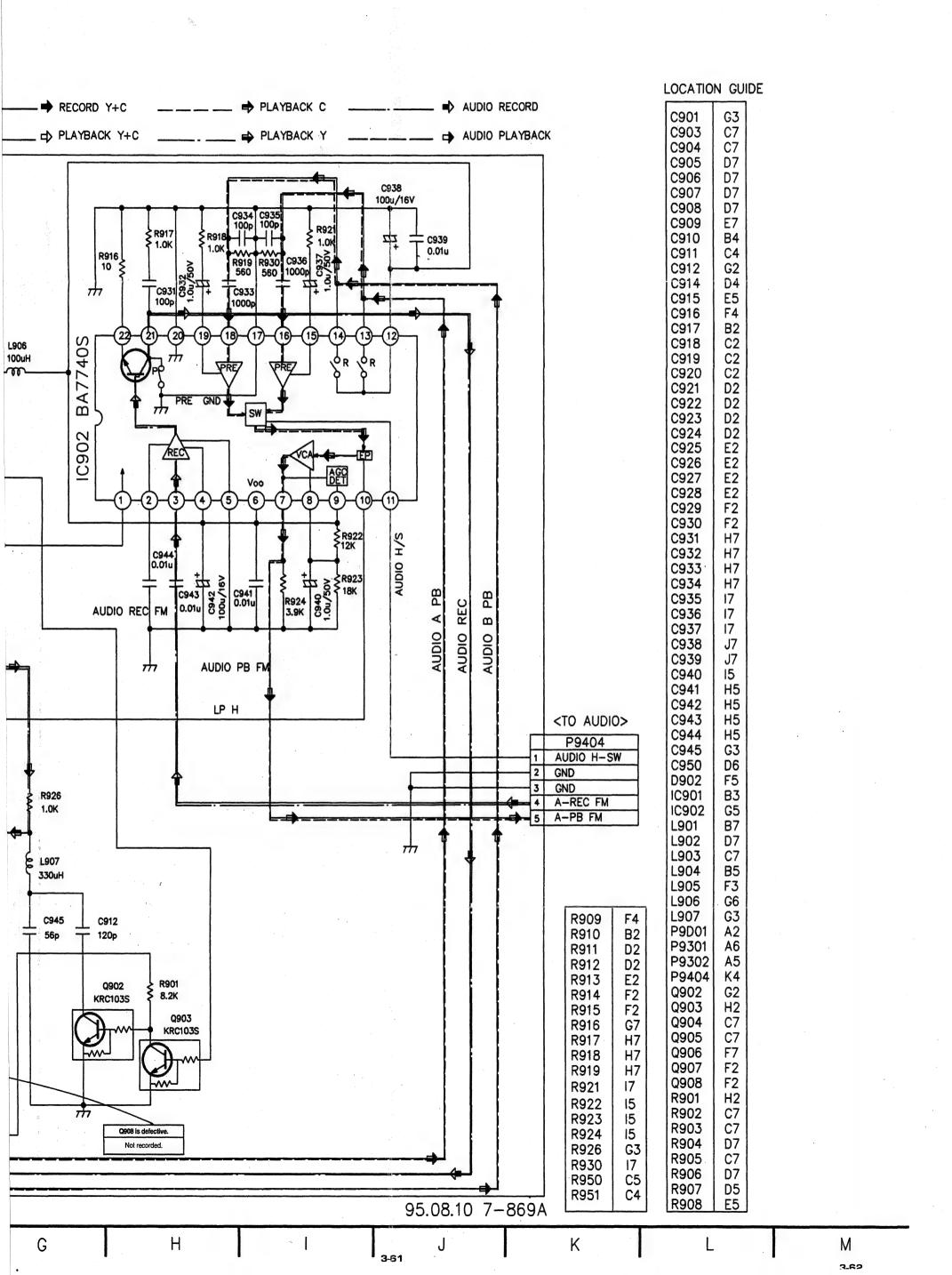
E

F

3-60

Α

B



## \* VHS Pre-Amp IC Voltage Sheet

SP mo	ode												PB	(REC)	
5.0	2.0	4.7	0.3	1.3	2.2	0.1	0	0	2.8	2.3	2.5	4.1	0	2.7	
(5.0)	(3.8)	(4.8)	(0.3)	(1.3)	(2.2)	(0.1)	(4.4)	(0)	(3.1)	(0.1)	(0)	(4.1)	(2.2)	(2.7)	
30					25					20					
	) IC901 (HA118019)														
1	5 10													15	
2.3	0	0.7	0	0.7	0	2.3	4.2	0	0	0	0	0	4.2	5.0	
(4.3)	(2.2)	(2.2)	(0)	(2.2)	(2.2)	(4.3)	(4.3)	(0)	(0)	(0)	(0)	(0)	(4.2)	(4.8)	

LP mo	de												РВ	(REC)
5.0	2.0	4.7	0.3	1.3	2.2	4.9	3.1	0	2.8	2.2	2.5	4.1	0	2.7
(5.0)	(3.8)	(4.8)	(0.3)	(1.3)	(2.2)	(4.9)	(4.4)	(0)	(3.1)	(0.1)	(0)	(4.0)	(2.2)	(2.7)
_30		25 20												
)		IC901 (HA118019)												
[1]	5 10													15
4.2	0	0	0	0	0	4.2	2.3	0	0.7	0	0.7	0	2.3	5
(4.2)	(0)	(0)	(0)	(0)	(0)	(4.2)	(4.2)	(2.1)	(2.1)	(2.1)	(2.1)	(2.1)	(4.2)	(4.8)

SP mo	ode								РВ	(REC)		
0	0	0	0.74	0.65	0	0.65	0.74	0	0	5.05		
(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4.27)	(4.27)	(4.98)		
		20	15									
)	) IC902 (BA7790S)											
1				5					10			
0.33	0.49	5.05	5.05	0.02					0	2.53		
(6.0)	(1.37)	(2.77)	(4.98)	(0)	(4.98)	(3.60)	(2.97)	(4.98)	(0.02)	(0.01)		

LP mo	de								RE	C (PB)			
0	0	0	0.74	0.65	0	0.65	0.74	0	4.67	5.05			
(0)	(0)	(0)	(0)	(0)	(0)	(0)	(0)	(4.27)	(4.27)	(4.98)			
		20	15										
)	IC902 (BA7790S)												
1				5					10				
0.33	0.50	2.82	5.05	0	5.05	2.70	5.05	5.05	5.11	2.53			
(6.0)	(1.37)	(2.77)	(4.98)	(0)	(4.98)	(3.6)	(2.97)	(4.98)	(0.02)	(0.01)			

\*8mm System IC Voltage Sheet IC501 (CXP80724'S)

501	(CXP80724'S)	

	_			_			_								_		_								
Pin No.	1 -	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
Voltage	2.5	0.0	0.0	0.0	0.0	0.0	1.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	0.0	0.0	0.0	5.3	5.3	5.2	0.0	5.2	0.0
Pin No.	26	27	28	29	30	31	- 32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Voltage	0.0	4.6	5.2	0.0	5.2	0.0	0.0	0.0	0.0	1.2	0.0	5.0	0.0	0.0	5.3	0.0	2.6	2.3	0.0	5.2	0.0	5.1	0.0	5.2	5.2
Pin No.	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
Voltage	0.0	0.0	5.2	5.1	0.0	1.4	0.0	0.0	4.8	4.7	2.4	2.7	0.0	0.0	0.0	0.0	0.0	0.0	6.6	2.5	0.0	5.1	1.0	0.0	1.0
Pin No.	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
Voitage	1.0	2.6	5.2	5.2	4.9	5.2	5.3	0,0	0.0	5.7	0.0	5.2	0.0	5.3	5.3	5.3	0.0	5.3	0.0	0.0	5.2	0.0	5.2	2.3	2.6

PB mode

1	IC50	
(P	ST52	23D)
1		
5.3	0.0	5.3

	0.0	0.0	0.0	4.6	0.0	0.0	0.0
	`	ICE	02	/I D	10	6M)	
1	ノ 1	100	03	(LD	5	Olvij	
							0.0

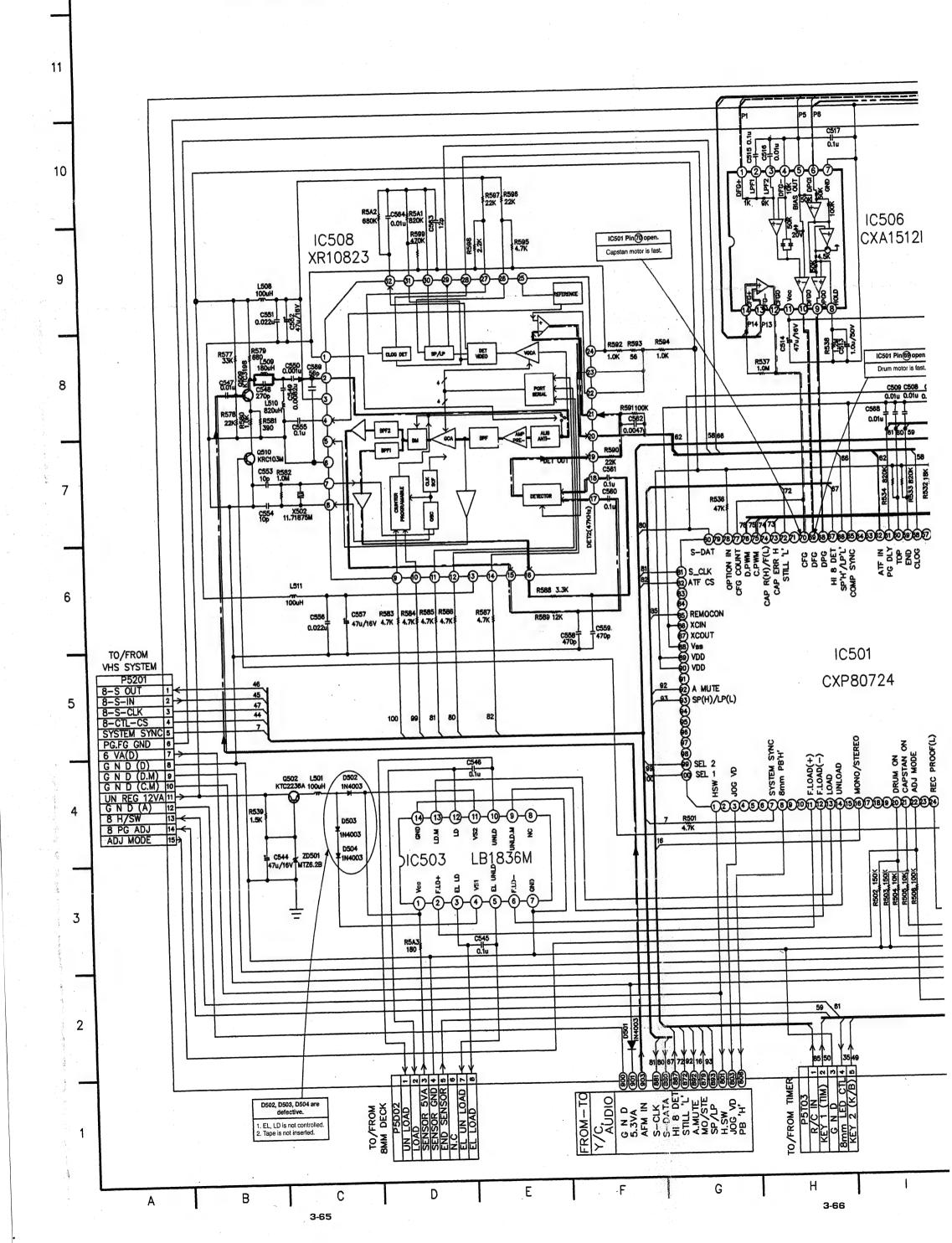
0.0	0.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.9	0.0	0.0	1.3	0.0	0.0
30	30 25 20 ) IC504 (CXA1127M)													
				5		,,,			10					15
0.0	0.0	0.0	1.0	1.0	1.0	0.0	1.7	0.0	6.0	6.0	1.5	0.0	0.0	0.0

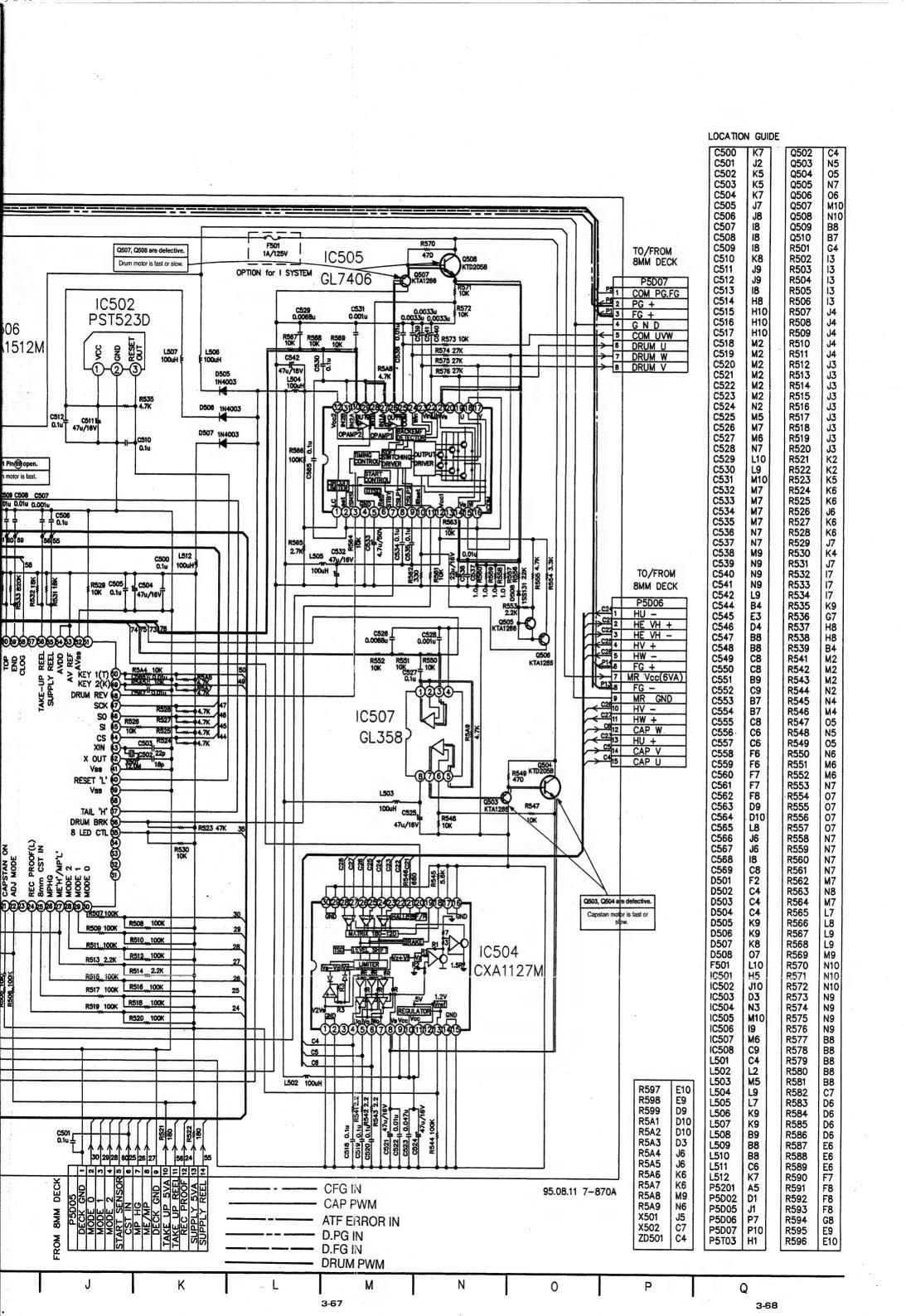
6.0	0.8	0.8	8.0	0.8	0.8	1.6	1.0	1.0	1.8	0.0	0.0	0.0	0.0		
		30						20							
1				5					10					15	
0.0	0.0	0.0	0.0	0.0	1.0	3.5	5.8	5.8	0.0	0.0	6.0	0.0	1.8	0.0	0.0

2.6	2.6	2.5	5.3	2.5	0.0	1.9					
5	10 ) IC506 (CXA1512M)										
ا (ر 1	IC5(	)6 (I	GXA	11 <b>5</b> 1 5	12M	)					
0.0	2.0	1.3	1.9	1.9	1.9	0.0					

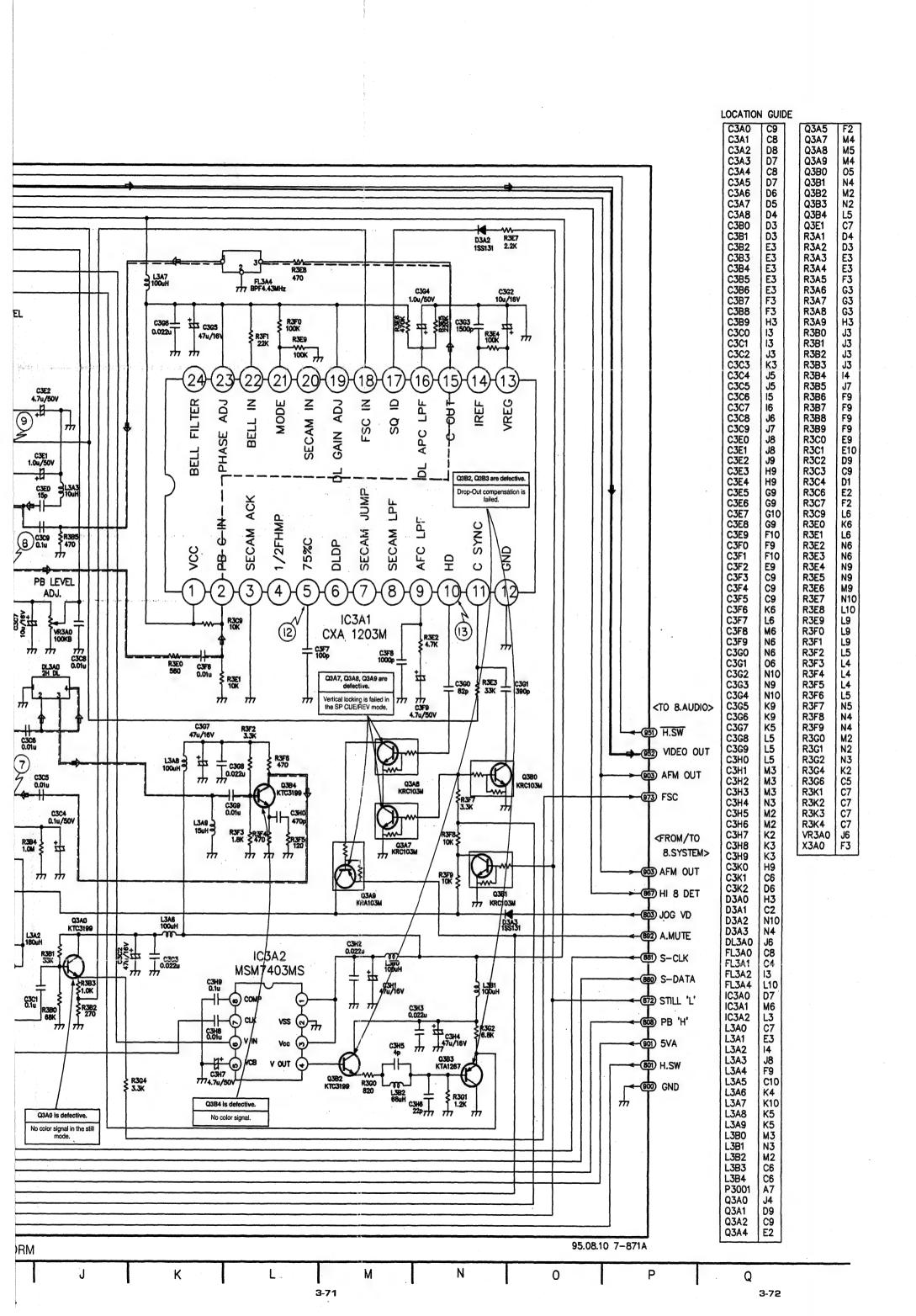
# IC508 (XR10823)

	•		•													
Pin No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Voltage	0.0	2.5	5.2	0.0	2.6	0.0	1.5	2.2	2.5	0.0	0.0	0.0	0.0	0.0	2.6	2.6
Pin No.	32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17
Voltage	3.4	0.8	2.0	0.0	0.0	0.6	0.9	2.6	0.0	2.6	2.6	2.6	2.6	0.0	2.5	2.5

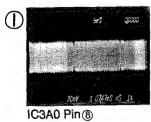




3-70



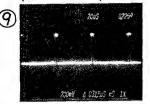
#### \* 8mm Y/C Waveform (When taking a photograph of waveform, set probe of oscilloscope to 10:1)



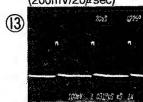
IC3A0 Pin® PB RF (20mV/5msec)



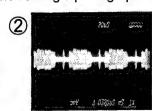
IC3A0 Pin 
Serial DATA
(200mV/5msec)



IC3A0 Pin (4)
C-SYNC
(200mV/20µsec)



IC3A1 Pin 
HD Port
(100mV/20µsec)



IC3A0 Pin ® PB COLOR (5mV/20µsec)



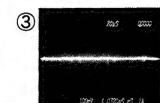
IC3A0 Pin 
Serial CLOCK
(200mV/5msec)



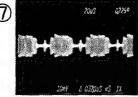
IC3A0 Pin (TP3A1) VIDEO OUT (50mV/20µsec)



P3001 Pin
H.SW
(500mV/5msec)



IC3A0 Pin ® (TP3A2) PB Color VCO (100mV/20µsec)



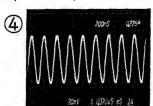
IC3A0 Pin ® PB COLOR (10mV/20#sec)



IC3A0 Pin 

Y-CCD IN

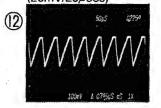
(10mV/20µsec)



IC3A0 Pin 
PB Fsc
(20mV/200nsec)



IC3A0 Pin (3)
PB Color
(20mV/20µsec)



IC3A1 Pin ⑤ 75%C Port (100mV/50µsec)

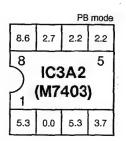
### • 8mm Y/C TR Voltage Sheet

TR No.	Emitter	Collector	Base	Mode
Q3A0	2.9	5.3	3.5	
Q3A1	0.0	0.0	4.3	Hi-8 PB
QSAT	0.0	4.4	0.0	Normal PB
Q3A2	0.0	0.0	0.0	Hi-8 PB
QSAZ	0.0	0.0	4.4	Normal PB
Q3A4	5.3	5.2	4.6	PB
Q3A5	0.0	0.0	5.3	PB
	0.0	0.0	0.0	PB
Q3A7	0.0	2.9	0.4	Still
	0.0	2.4	0.9	Cue/Rev
	0.0	0.4	0.0	PB
Q3A8	2.9	4.3	0.1	Still
	2.4	5.2	0.3	Cue/Rev
	0.0	0.9	0.4	PB
Q3A9	4.3	0.9	4.3	Still
	5.3	1.0	5.2	Cue/Rev
	0.0	0.2	0.0	PB
Q3B0	0.0	0.2	0.4	Still
	0.0	0.2	0.9	Cue/Rev
	0.0	0.0	5.3	PB
Q3B1	0.0	0.7	0.2	Still
	0.0	0.0	5.3	Cue/Rev
Q3B2	3.0	5.2	3.6	PB
Q3B3	2.4	0.0	1.8	PB
Q3B4	1.2	4.0	1.8	PB

\* 8mm Y/C IC Voltage Sheet

																PB	mode
_	0.0	2.0	1.2	3.3	1.2	2.6	2.1	5.1	2.1	3.1	2.4	3.2	1.5	2.2	1.3	3.1	
2.5	1				60					55	-				50		1.4
5.0		PIN HI PIN HI					i										0.4
0.5																	2.9
0.7																45	2.2
2.0	5																2.9
0.6																	2.2
0.0																	3.0
3.0	1								3A(								2.1
4.2	1						(H	A1	181	1/2	)					40	2.3
2.3	10																2.2
5.1																	1.8
0.0					,												1.9
0.0	1																3.0
2.3																35	2.9
2.2	15																2.1
5.1				20					25					30			0.8
	2.5	2.5	2.5	2.5	3.0	2.2	2.8	0.0	5.1	5.4	1.3	2.2	0.0	3.0	1.1	2.1	
					-												

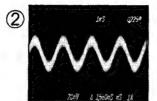
										PB	mode
1.5	5.2	4.7	2.7	0.1	5.2	0.7	4.8	1.9	2.2	2.2	4.3
24				20					15		
			IC	3A1	(C)	XA1	203	M)			
1				5					10		
5.2	2.5	0.1	0.0	2.7	0.0	2.1	2.6	2.1	1.0	0.6	0.0



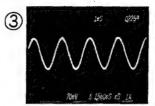
# \* 8mm AUDIO Waveform (When taking a photograph of waveform, set probe of oscilloscope to 10:1)



Q4A0 Base AFM IN (20mV/5msec)



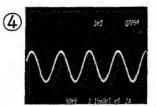
IC4A0 Pin ①
Mod/Dem DET (L)
(20mV/1msec)



IC4A0 Pin

MAT IN (L)

(20mV/1msec)



P4V02 Pin (5) AUDIO (L) OUT (50mV/1msec)

### • 8mm Audio TR Voltage Sheet

DD	mad

Port TR No.	Emitter	Collector	Base
Q4A0	1.2	3.2	1.8
Q4A1	2.6	5.2	3.2
Q4A2	0.0	0.0	0.0
Q4A3	0.0	0.0	0.0
Q4A4	0.0	5.2	0.0
Q4A5	5.3	0.0	5.2
Q4A6	0.0	2.6	2.6

### \* 8mm Audio IC Voltage Sheet

PB mode

							9								•					PB	mode
	1.5	1.9	8.0	0.0	2.3	2.3	2.3	2.3	2.3	2.3	3.1	2.3	2.2	0.0	0.0	2.3	2.3	2.3	2.3	2.3	
2.3	60					55					50					45				40	2.3
5.3																					2.4
2.1																					5.3
1.8																					2.8
4.7	65																				2.3
0.0	66 F	IN MC	NO :	4.7V																35	2.3
2.8																					2.3
0.0																					5.3
5.2									1	C4/	10										5.3
5.5	70									118		F									2.9
2.8																				30	0.4
2.8																					0.0
0.0																					0.0
3.6																					2.3
8.0	75																				2.3
1.7	]																			25	2.3
0.0													•								2.8
5.3																					0.0
2.1																					2.3
3.7	1				5		_			10		_			15					20	2.3
/	2.3	1.5	1.8	0.7	0.0	2.3	2.3	2.3	2.3	2.3	2.3	3.0	2.3	0.2	0.2	2.3	2.3	2.3	2.3	2.3	

## + 8mm Pre-Amp TR Voltage Sheet

Port TR No.	Emitter	Collector	Base	Mode
Q001	2.4	5.1	3.1	
Q002	1.7	5.1	2.4	
Q003	0.0	0.0	4.9	PB
	0.0	3.6	0.1	Cue/Rev
Q005	0.0	0.0	5.1	PB
Q005	0.0	4.4	0.2	Still
Q006	3.4	1.8	2.7	
Q007	2.7	5.2	3.3	
Q008	2.0	5.1	2.7	
0000	1.2	5.2	1.8	Normal PB
Q009	3.3	5.1	1.8	Hi-8 PB
Q010	1.1	5.1	1.8	
Q011	3.3	5.1	4.0	
Q012	4.0	1.1	3.3	
Q013	0.0	0.0	1.2	Normal PB
0015	3.3	5.1	4.0	Hi-8 PB
0014	5.2	0.0	5.2	Normal PB
Q014	5.2	5.1	4.4	Hi-8 PB
0015	0.0	5.2	0.0	Normal PB
Q015	0.0	0.1	4,2	Hi-8 PB

### \* 8mm Pre-Amp IC Voltage Sheet

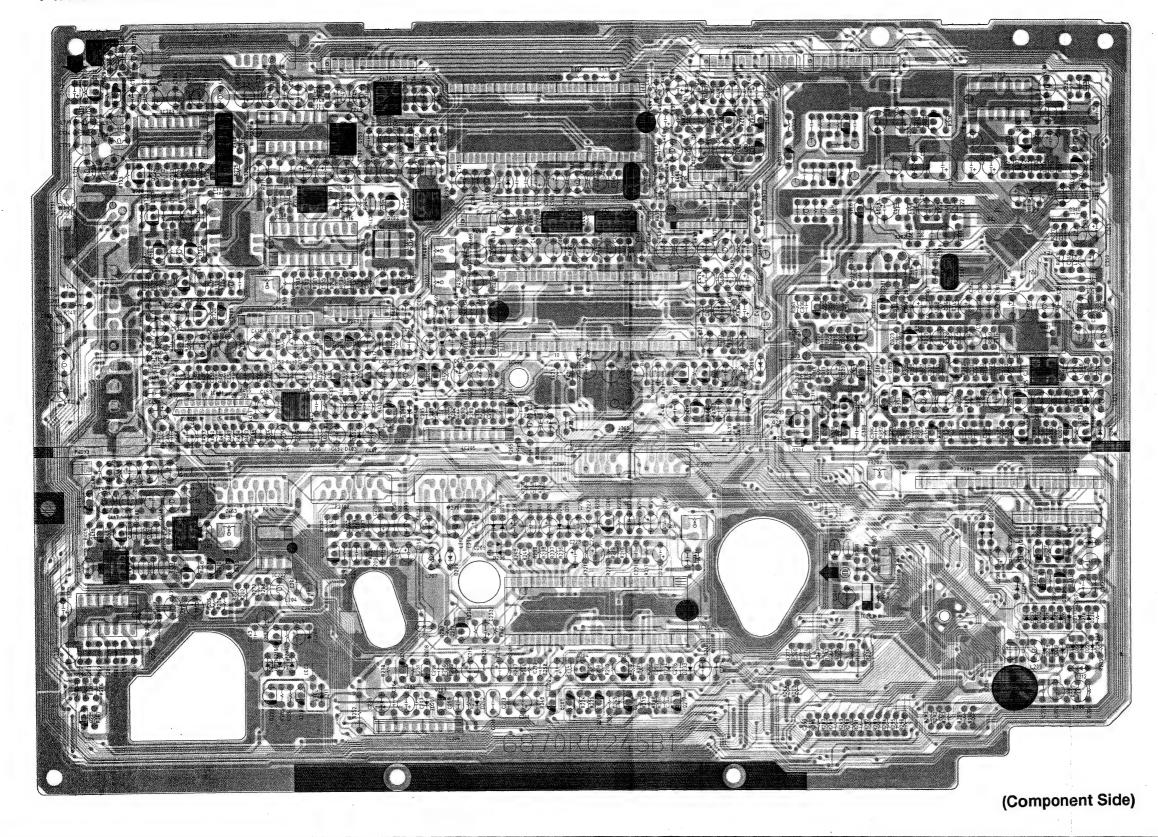
														HIOGE
0.1	0.1	0.3	1.8	1.5	3.7	0.0	3.1	3.9	0.2	2.3	2.6	5.1	5.1	5.2
30					25	IC	2001			20				
IC001 (HA118191NT)														
				5					10					15
	-								10					10

# PRINTED CIRCUIT BOARD DIAGRAMS

- 1. VHS Printed Circuit Board
- 1-1. Main P.C.Board

2

A



D

3-84

3-83

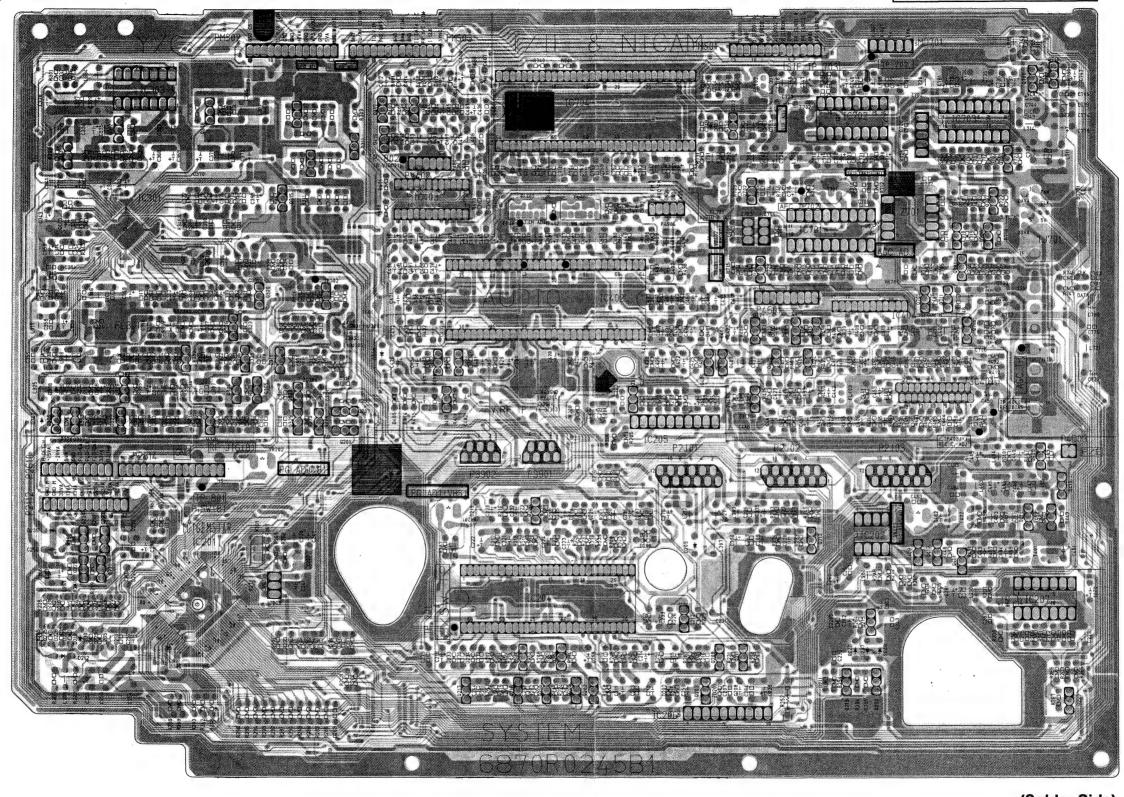
G

F

5

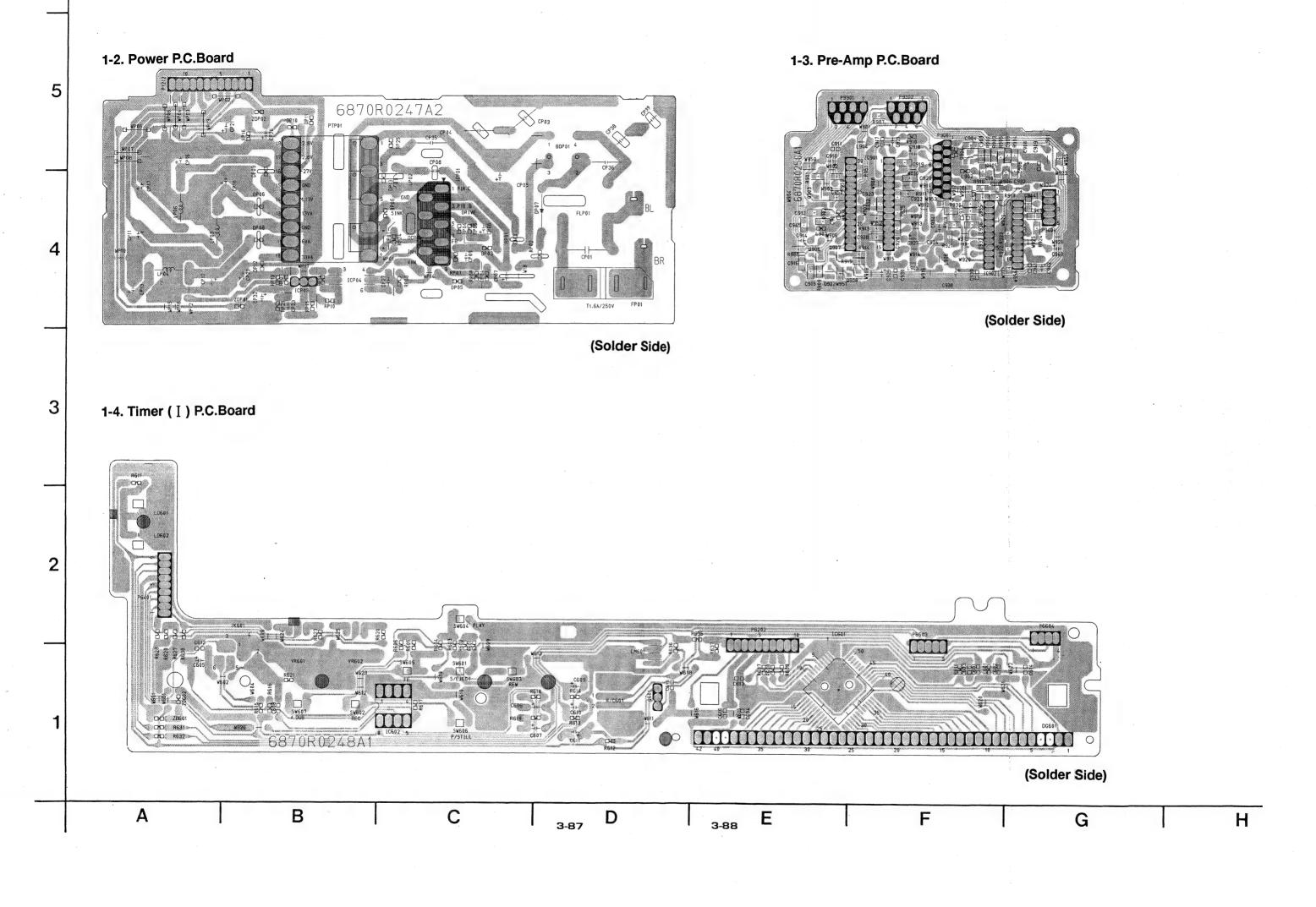
NOTE) : MEASUREMENT POINT
: ADJUSTMENT POINT
Emitter: TRANSISTOR
Collector
Base

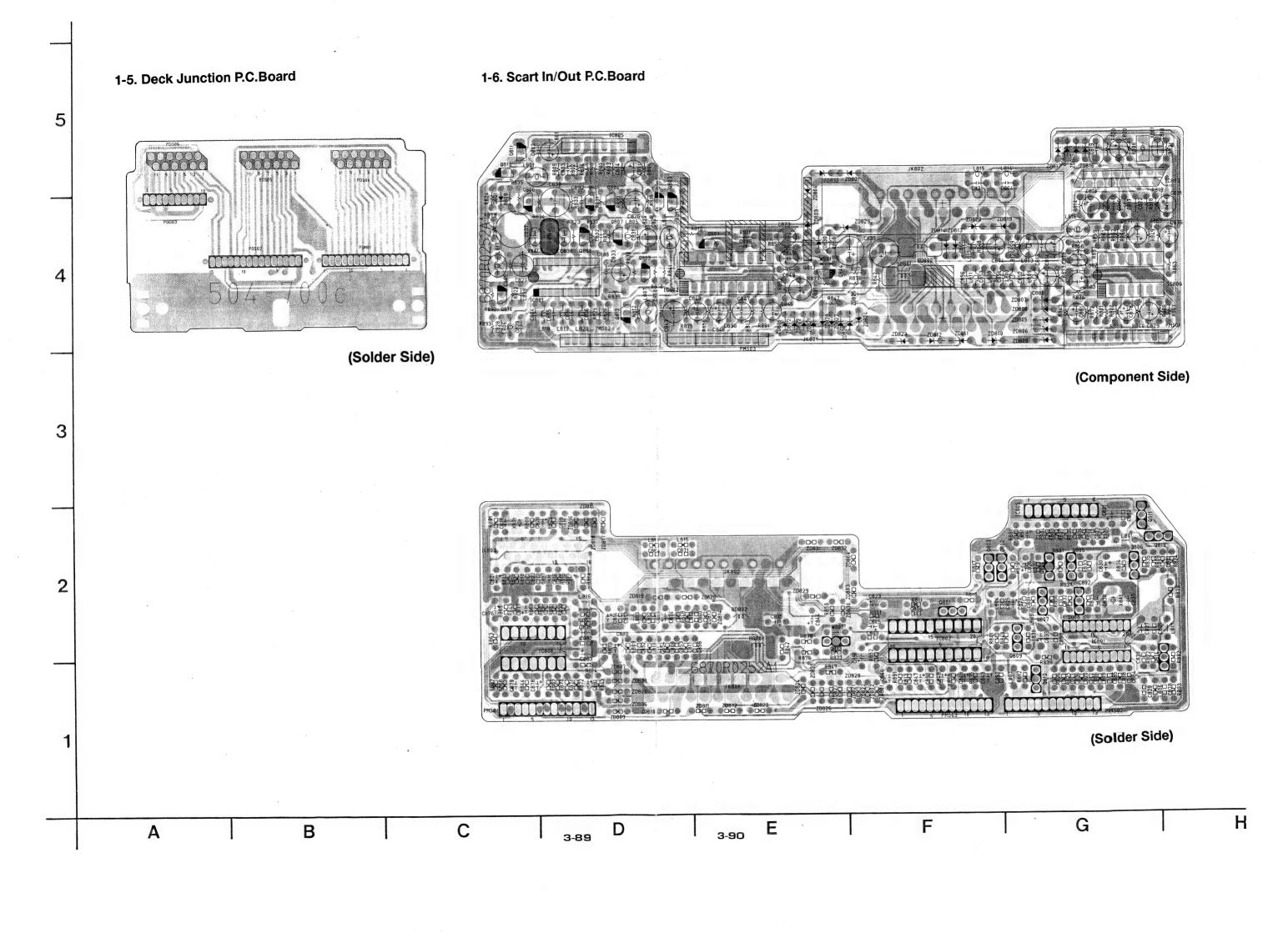
Main P.C.Board



(Solder Side)

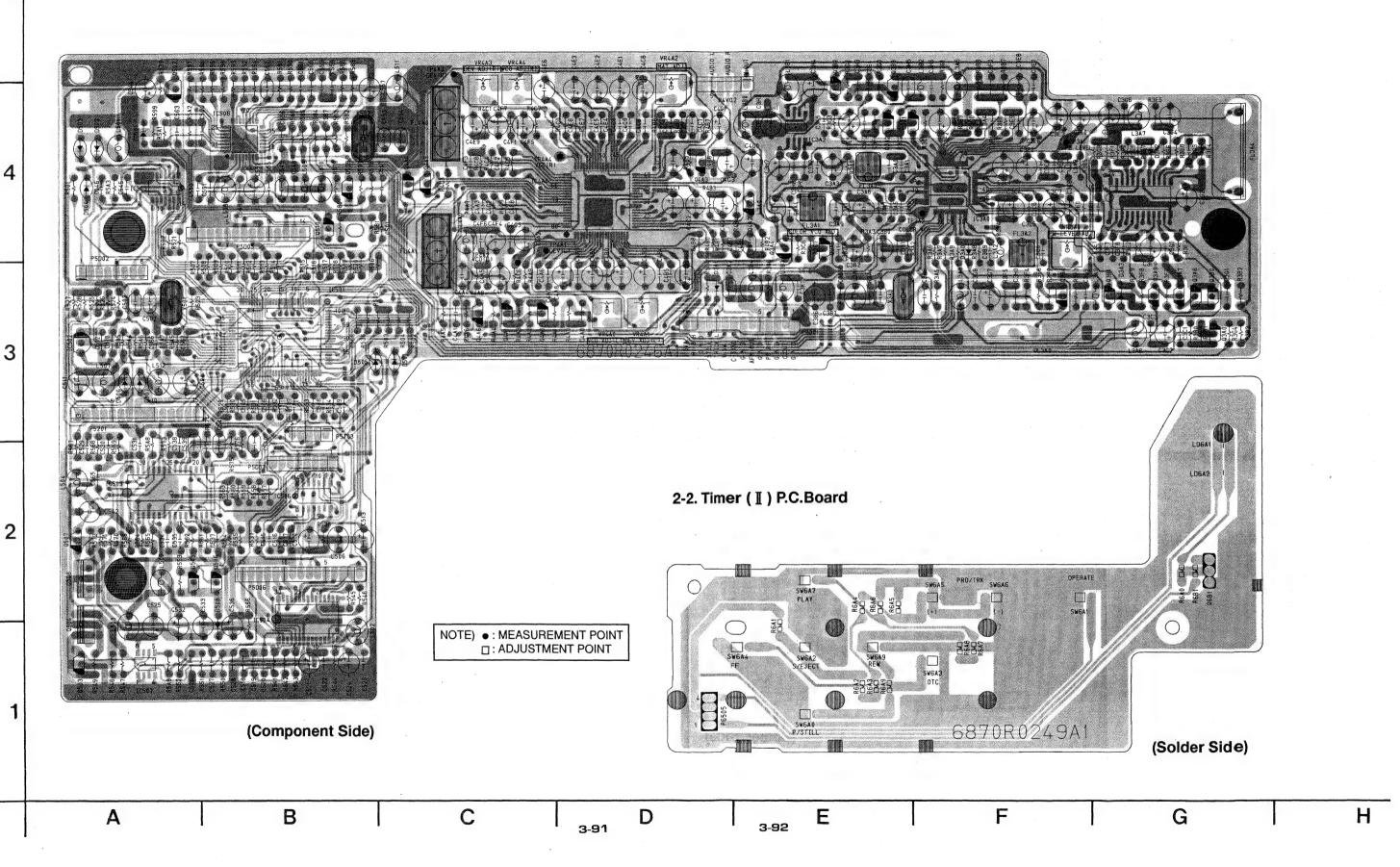
H G B C Ε F Α D 3-86

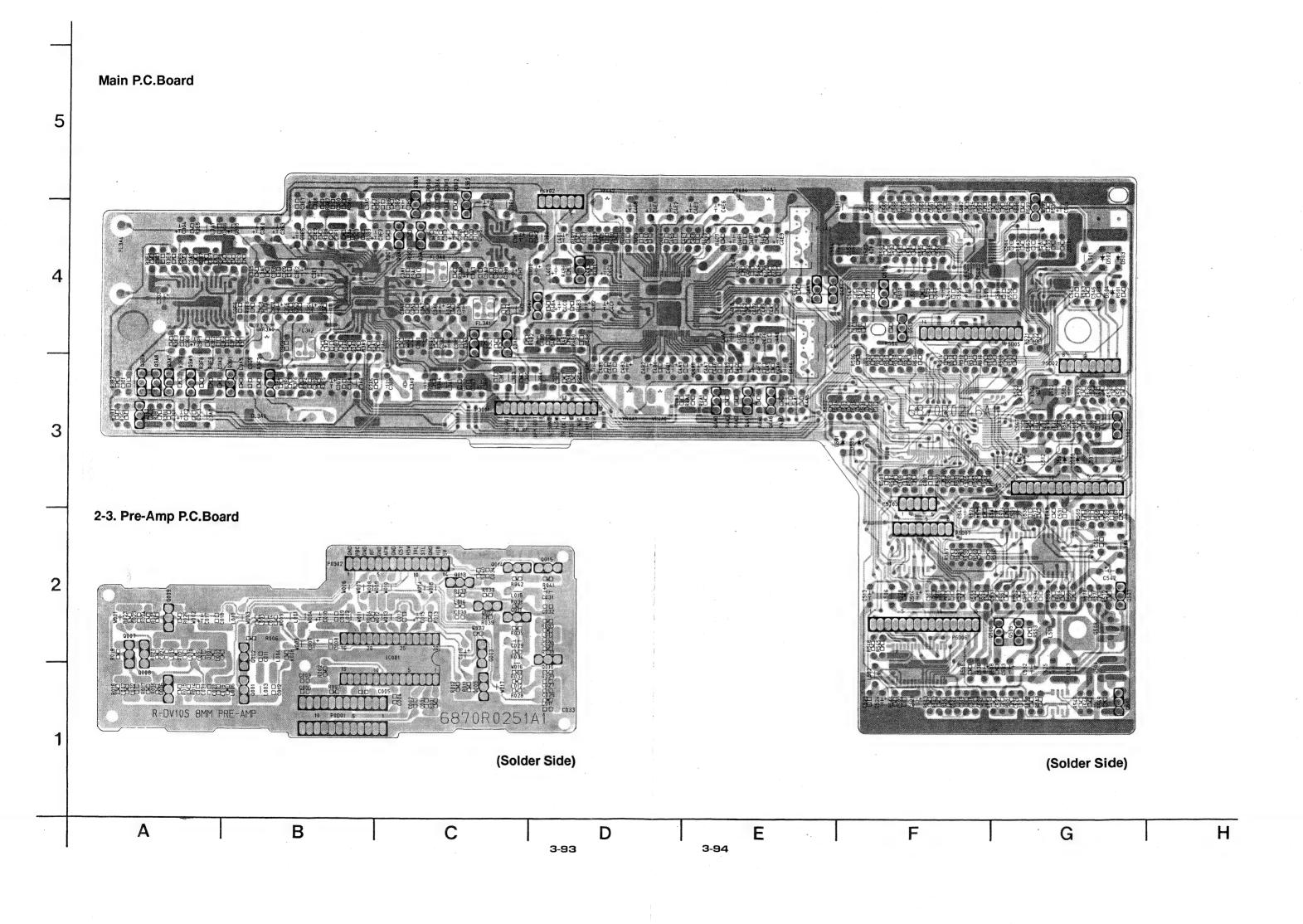




3

# 2. 8mm Printed Circuit Board 2-1. Main P.C.Board





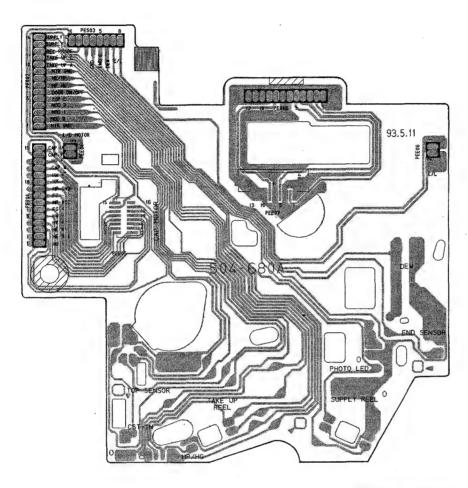
5

4

3

2

1



(Solder Side)

A

В

C

3-95

D

# MEMO

		***************************************	
		***************************************	
	***************************************	***************************************	
		***************************************	
	***************************************		
	***************************************	***************************************	
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			***************************************
		<u>.</u>	

# SECTION 4 MECHANISM

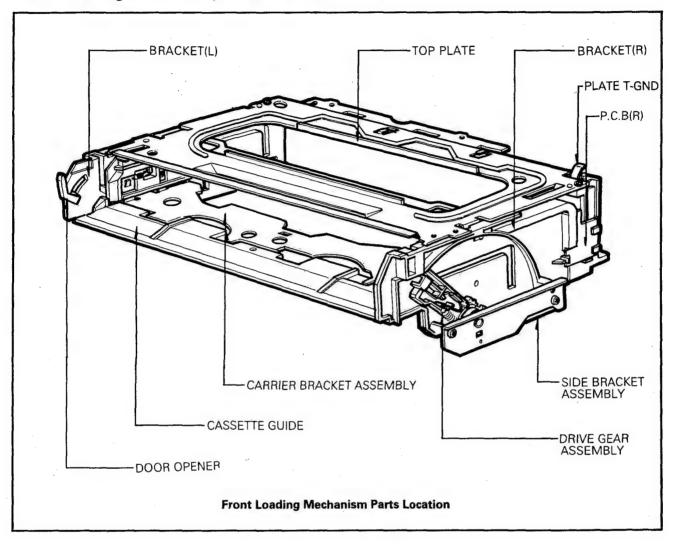
**CONTENTS** 

SECTION 4-1 VHS DECK MECHANISM

SECTION 4-2 8mm DECK MECHANISM

# SECTION 4-1. VHS DECK MECHANISM FRONT LOADING MECHANISM DISASSEMBLY

• Front Loading Mechanism Parts Location



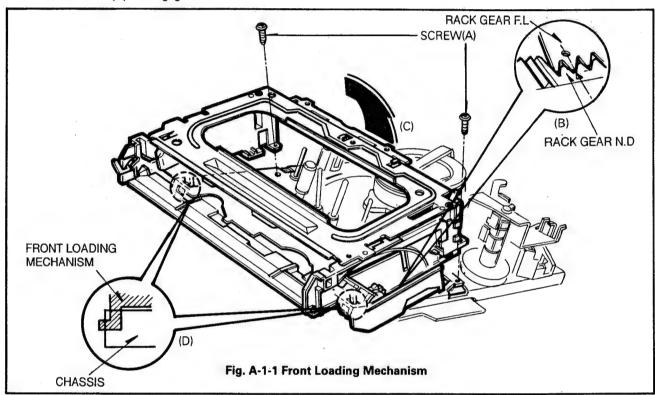
- Component list below will be discribed as if the top and bottom covers and the front panel have already been removed.
- 2. P.C.B Assembly
- 3. Top Plate
- 4. Carrier Bracket Assembly

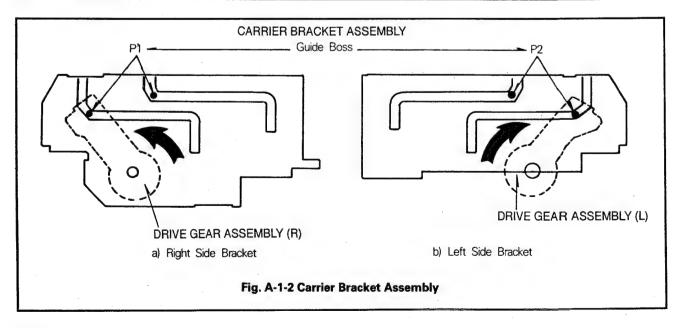
- 5. Cassette Guide
- 6. Side Bracket Assembly
- 7. Bracket(L), (R)
- 8. Door Opener
- 9. Drive Gear Assembly

## 1. Front Loading Mechanism Assembly (Fig. A-1-1)

- 1) Remove the Top and Bottom Covers and the Front panel.
- 2) Unplug the connector.
- 3) Remove two screws(A).
- 4) Lift up the Front Loading Mechanism in the direction of arrow(C).

- 1) When disassembling and reassembling
- ① Give special attention to removal and to reassemble, because two tabs(D) are engaged.
- ② Make sure that Bosses of Bracket(L),(R) are properly engaged in the holes of the chassis.
- ③ To reassemble Front Loading Mechanism, the Drive Gear Assembly should be turned in a counterclockwise as shown in Fig. A-1-2 so that the Rack Gear N.D of Front Loading Mechanism Assembly is meshed into Rack Gear F.L of Deck Mechanism Assembly correctly as shown in Fig. A-1-1.(B).





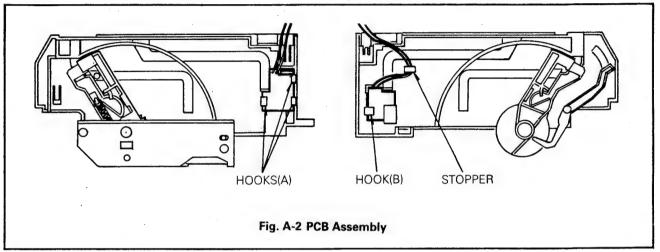
## 2. PCB(Printed Circuit Board) Assembly

### 2-1. P.C.B Assembly(R)(Fig. A-2)

- Remove the PCB Assembly(R) by pushing three Hooks (A) outward.
- 2) Release the Lead wire from stoppers.

### 2-2. PCB Assembly(L).(Fig. A-2)

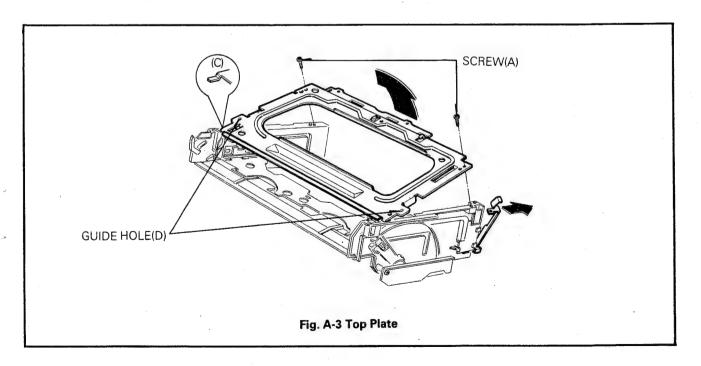
- Remove the PCB Assembly(L) by pushing the Hook(B) outward.
- 2) Release the Lead Wire from stoppers.



## 3. Top Plate(Fig. A-3)

- 1) Remove two screws(A).
- 2) Push the upper part of Top plate Ground and then lift up the Top Plate in the direction of arrow(B).

- 1) When reassembling, be certain that the tabs(C) of Top Plate is in both Bracket(L),(R).
- ① Then align the guide holes(D) of Top Plate with Bosses of side Bracket(L),(R).



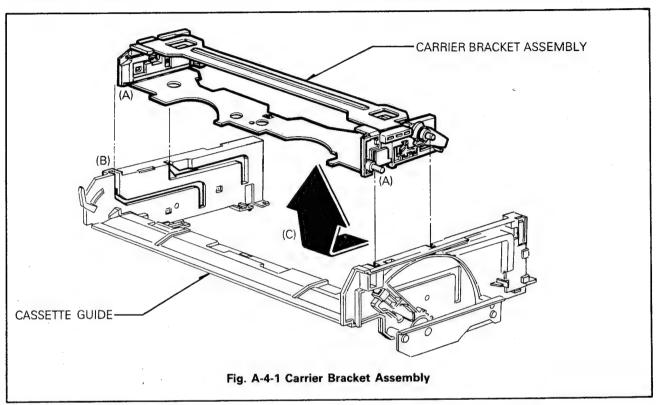
## 4. Carrier Bracket Assembly

## 4-1. Carrier Bracket Assembly(Fig. A-4-1)

1) Remove the Carrier Bracket Assembly by moving it in the direction of arrow(C).

### \* NOTE

1) When reassembling, be sure that parts(A) of Carrier Bracket Assembly are seated in parts(B) of Bracket(L),(R).



### 4-2. Cassette Opener(Fig. A-4-2)

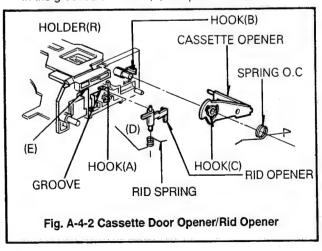
- 1) Release the spring O.C from the Hook(A) and then release it from Hook(C) of cassette opener.
- Remove the cassette opener by releasing the Hook(B) from the Holder(R).

## 4-3. Rid Opener(Fig. A-4-2)

1) Remove the rid opener by pushing it outward.

### \* NOTE

1) When reassembling, seat the upper part of the rid opener in the grooved of Holder(R) and push it inward.

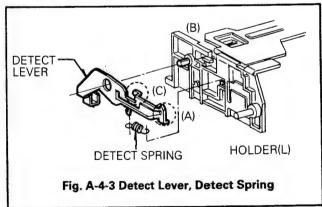


### 4-4. Detect Lever and Detect Spring

- 1) Remove the spring detect.
- 2) Lower the side(A) of Detect Lever and then remove the Detect Lever by pushing it outward.

### \* NOTE

1) When reassembling, make sure that the part(C) of Detect Lever set in the part(B) of Holder(R).

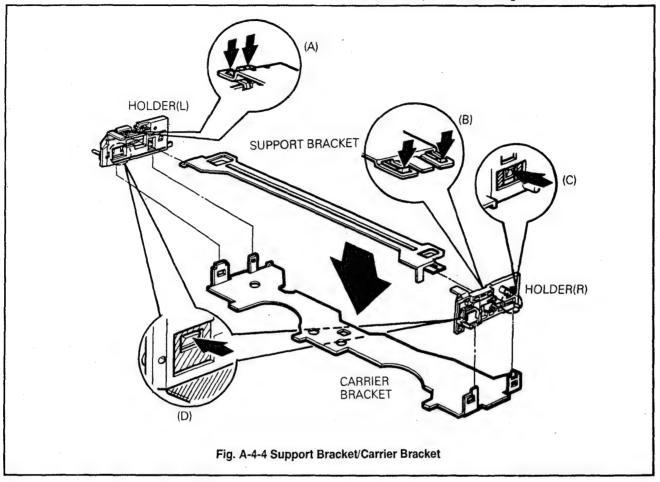


### 4-5. Support Bracket Assembly(Fig. A-4-4)

1) Take the Support Bracket out by releasing hooks(A),(B).

### \* NOTE

1) When disassembling and reassembling, be careful because heavy force can damage the hooks.



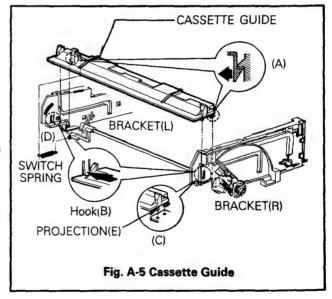
## 4-6. Carrier Bracket Assembly(Fig. A-4-4)

1) Remove the Carrier Bracket by releasing hooks(C),(D).

## 5. Cassette Guide(Fig. A-5)

- Remove the Switch Spring with the Front Loading Mechanism Assembly turned over.
- 2) Push two hooks(B) outward.
- 3) Remove the Cassette Guide by pushing two hooks(A). outward(if one is removed, the other will be easy to remove)

- 1) When reassembling
- ① Seat projections(E) of Cassette Guide in holes of Bracket Assembly(L),(R) and then engage the Hook(A).
- ② After finishing previous step, fix the Cassette Guide to the Bracket Assembly(L),(R) by pushing two hooks(B) inward.

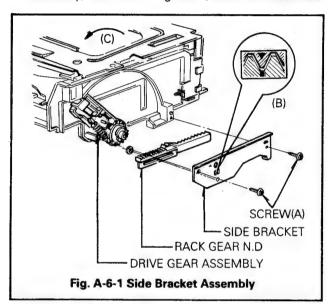


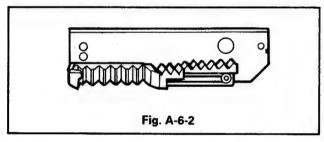
## 6. Bracket Assembly Side (Fig. A-6-1)

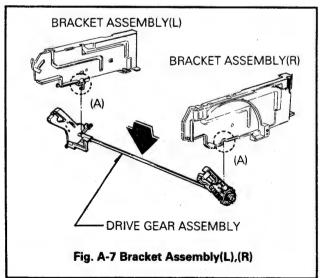
 Remove two screws(A) and then remove the Side Bracket Assembly and the Rack Gear N.D.

### \* NOTE

- 1) When reassembling
- Turn the Drive Gear Assembly in the direction of arrow
   (C).
- ② Reassemble the Rack Gear N.D. to the Side Bracket Assembly, as shown in Fig. A-6-2, and then reassemble







it to the Bracket Assembly(L), This time the Assembling Figure should be the same as(B) at the rectangular hole of Bracket Side.

## 7. Bracket Assembly(L),(R)(Fig. A-7)

 Seperate the Bracket Assembly(L),(R) from the Gear Assembly Drive.

#### \* NOTE

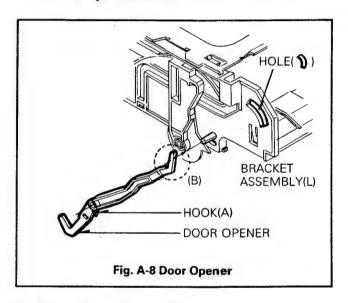
1) When reassembling, seat the shaft in the part(A) of Bracket Assembly(L),(R).

## 8. Door Opener(Fig. A-8)

1) Remove the Door Opener by pushing Hook(A) outward.

#### \* NOTE

 When reassembling, seat the part(B) of Door Opener in the hole( ) of Bracket(L).



## 9. Drive Gear Assembly

## 9-1. Drive Gear Assembly(Fig. A-9-1)

 Remove the Drive Gear Assembly from the Bracket Assembly(L),(R).

### 9-2. Cushion Spring(Fig. A-9-1)

1) Remove the cushion spring from the Gear R.

### 9-3. Cap-D(Fig. A-9-1)

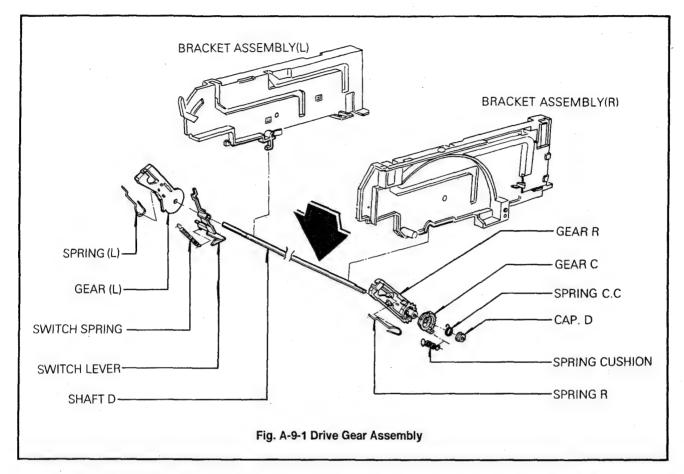
1) Remove the Cap-D by lifting it up.

### 9-4. Spring C.C(Fig. A-9-1)

1) Remove the Spring C.C from the Gear R.

### 9-5. Gear C(Fig. A-9-1)

 Remove the Gear C by lifting up when the projection of Gear C is aligned with the hole of Gear R while rotating the Gear C in the counterclockwise direction.



### \* NOTE

1) When reassembling, seat the projections of Gear R in the holes of Gear C when the projection of Gear R is aligned with the hole of Gear C, and then keep the Gear C turned in the clockwise direction.

## 9-6. Gear R(Fig. A-9-1)

1) Lift up the Gear R from the Shaft.

## 9-7. Spring R(Fig. A-9-2)

1) Remove the Spring R by releasing Hooks.

## \* NOTE

1) When reassembling, be certain Spring R in the part(A) of Gear R.

### 9-8. Gear L.(Fig. A-9-1)

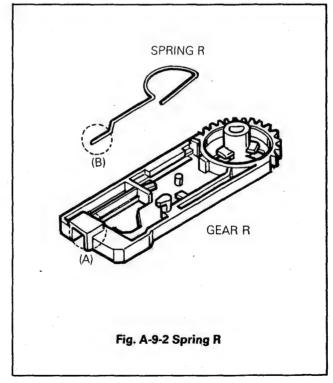
1) Remove the Gear L from the shaft.

## 9-9. Spring L (Fig. A-9-2)

- Remove the Spring L by releasing Hooks from the Gear L.
- \* NOTE: (Refer to the Spring R Section)

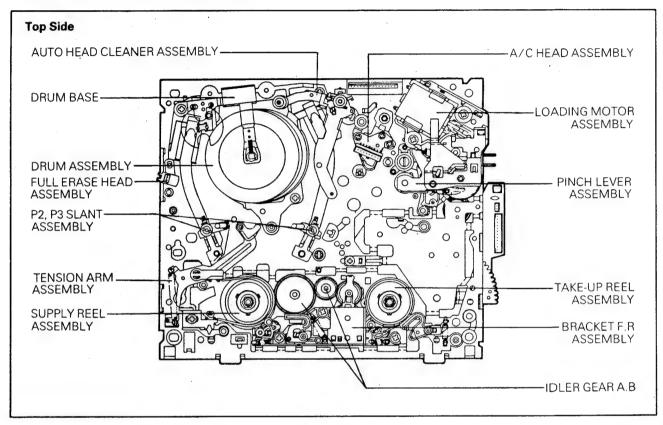
## 9-10. Switch Lever(Fig. A-9-1)

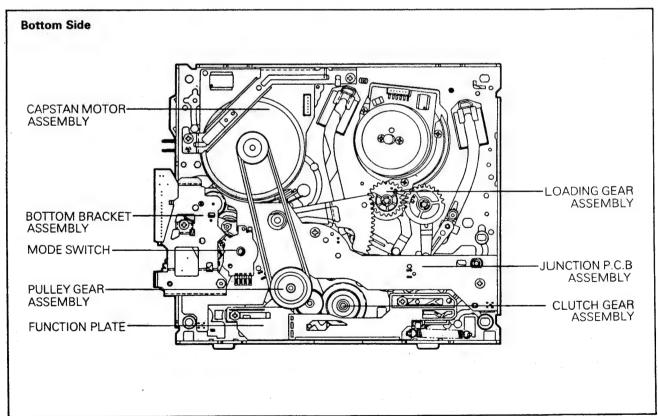
1) Remove the Switch Lever from the shaft.



## **DECK MECHANISM DISASSEMBLY**

## • Deck Mechanism Parts Location



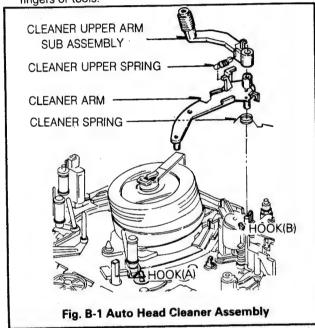


## 1. Auto Head Cleaner Assembly (Fig. B-1) (Optional Item)

- Remove the Cleaner Arm Assembly (Auto Head Cleaner Assembly) by pushing the Locking Tab.(B) outward.
- Remove the Cleaner Upper Spring and then remove the Cleaner Upper Arm Sub Assembly.
- 3) Remove the Cleaner Spring.

#### \* NOTE

 When reassembling, do not touch the Video Head Tip with fingers or tools.

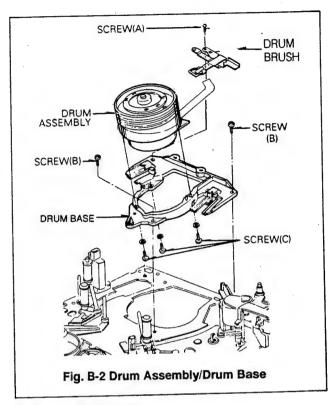


## 2. Drum Assembly and Drum Base(Fig. B-2)

- 1) Remove the Auto Head Cleaner Assembly. (Option)
- Unplug the connector with the Deck Mechanism Assembly turned over.
- 3) Loosen the screw(A) and then lift up the Drum Brush.
- Remove two screws(B) and then lift up the Drum Assembly and Drum Base from the Deck Mechanism Assembly.
- 5) Separate the Drum Assembly from the Drum Base by Loosening three screws(C) on the back of Drum Base.

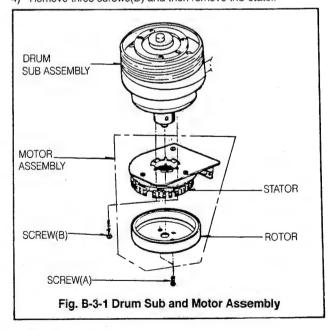
## \* NOTE

- 1) When disassembling and reassembling
- ① Do not touch the Video Head tip with fingers or tools. (Give special attention to disassembling and reassembling of Auto Head Cleaner Assembly)
- ② After reinstalling the Drum Brush, the Drum Brush should be aligned with the center of vertical axis of Drum Assembly.
- 3 After completing the reassembly, adjust the transportation system and the Servo P.G.



## 3. Drum Assembly

- 3-1. Drum Sub and Motor Assembly (Fig. B-3-1)
  - : New Type (No two screws and P.C.B on the Drum)
- 1) Remove the Drum Base from the Deck Mechanism Assembly.
- 2) Separate the Drum Assembly from the Drum Base.
- 3) Remove two screws(A) and then remove the rotor.
- 4) Remove three screws(B) and then remove the stator.



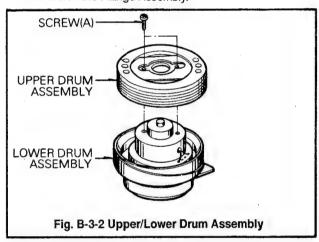
- 1) When disassembling and reassembling
- (1) Do not touch the Video Head Tip with fingers or tools.

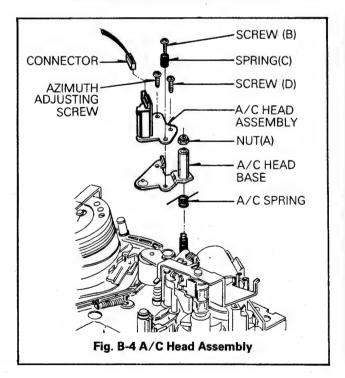
# 3-2. Upper and Lower Drum Assembly (Fig. B-3-2): Old Type (There are two screws and P.C.B on the Drum)

- Remove the Drum Assembly and Drum Base from the Deck Mechanism Assembly.
- 2) Separate the Drum Assembly from the Drum Base.
- 3) Remove two screws(A).
- 4) Remove the P.C.B.
- Separate the upper Drum Assembly from the Lower Drum Assembly.

### \* NOTE

- 1) When disassembling and reassembling
- ① Do not touch the Video Head Tip with fingers or tools.
- ② Make sure that the color(white) marked on the P.C.B of the upper Drum should coincide with the color(Green) marked on the Flange Assembly.





## 4. A/C(Audio/Control) Head Assembly (Fig.B-4)

- 1) Unplug the connector
- Remove the Nut(A), and then lift up the A/C Head Assembly
- 3) Remove the Azimuth Adjusting Screw.
- 4) Remove two screws(B),(D) and then separate the A/C Head Assembly from the Base A/C Head Assembly.

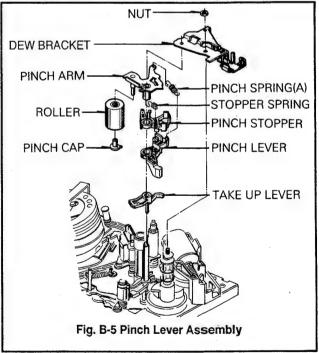
### \* NOTE

- 1) When disassembling
- (1) First of all, release the spring A/C.
- (2) Do not touch the A/C Head Tip with fingers or tools.
- 3 After reinstalling the Audio Control Head Assembly, adjust the Tilt, Azimuth and Height of A/C Head.

## 5. Pinch Lever Assembly(Fig. B-5)

- 1) Remove one Nut, and then remove the Dew Bracket.
- 2) Lift up Pinch Lever Assembly.
- 3) Remove the Pinch Spring, and remove the Pinch Lever.
- 4) Remove the Stopper Spring and remove the Pinch Stopper by lifting it up when the Hook of Pinch Stopper is aligned with the hole of Pinch Arm while rotating the Pinch Stopper in the counterclockwise direction.
- 5) Remove the Pinch Cap, and then remove the Pinch Roller Assembly.

- 1) When disassembling and reassembling
- ① Be careful not to get any foreign substance on the Roller.
- When disassembling the Pinch Cap, be careful not to damage the Pinch Arm.

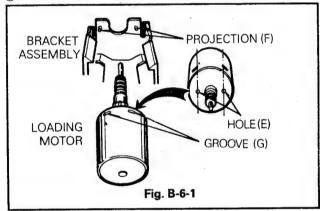


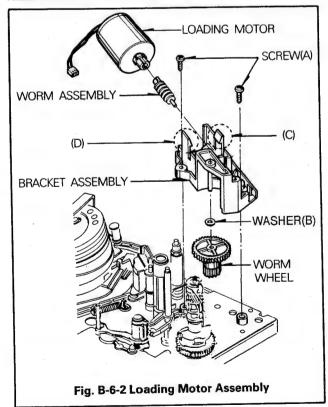
## 6. Loading Motor Assembly(Fig. B-6-1, B-6-2) 7. Take Up Lever(Fig. B-7)

- 1) Remove the Dew Bracket.
- 2) Unplug the connector from the Junction P.C.B Assemhlv
- 3) Remove two screws(A).
- 4) Remove the worm wheel by pushing it down.
- 5) Remove the Loading Motor Assembly by pushing(C) and (D) outward.
- 6) Remove the worm Gear Assembly from the Loading Motor Assembly by pushing it.

#### \* NOTE

- 1) When reassembling
- (1) Make sure that the worm assembly is seated in the axis of Loading Motor.
- ② Two grooves(G) of Loading Motor should be turned up and two projections(F) of Bracket Assembly should be seated in each at the two holes(E)(Fig. B-6-1).
- (3) Take notice of the polarity of the Loading Motor.

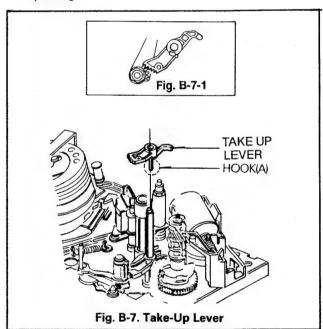




- 1) Remove the Loading Motor Assembly.
- 2) Remove the Dew Bracket(Fig. B-5).
- 3) Remove the Pinch Lever Assembly(Fig. B-5).
- 4) Keep the Pinch Gear turned in the clockwise direction (180°).
- Remove the Take-Up Lever by pushing the hook(A) cutward.

### \* NOTE

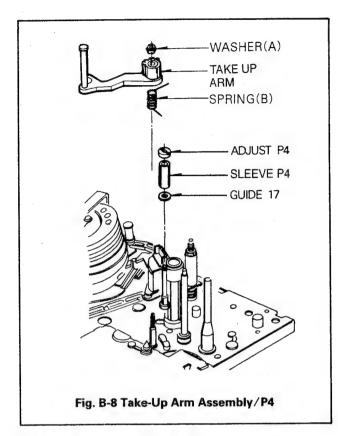
- 1) When disassembling and reassembling
- When disassembling the Take-Up Lever, be careful not to break the Hook(A).
- (2) When reassemble the Take-Up Lever, align the appendant Gear of Lever Take-Up with the appendant Gear of Takeup Arm
- (3) Reassemble the Take-Up Lever completely by hooking
- Be sure to replace together Take-Up Lever and Pinch Gear.
- Be sure to assemble Pinch Lever Assembly before operating.



## 8. Take Up Arm Assembly(Fig. B-8)

- 1) Remove the Loading Motor Assembly.
- Remove the Dew Bracket, Pinch Gear, and the Take-Up Lever.
- Remove one Washer(A).
- Remove the Take-Up Arm Assembly by lifting it up.
- 5) Remove the spring(B).

- 1) When reassembling
- (1) Align the Gear of Take-Up Arm with the Gear of Take-Up Lever(Fig. B-7-1).

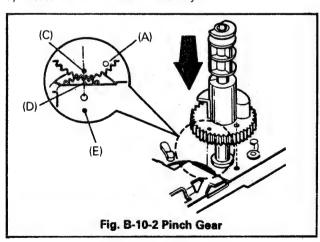


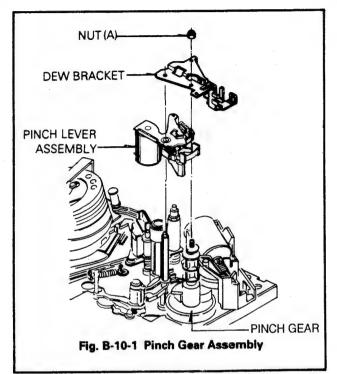
## 9. P4 Assembly(Fig. B-8)

- 1) Remove the Adjust P4.
- 2) Remove the Sleeve P4.
- 3) Remove the Guide 17.

## 10. Pinch Gear(Fig. B-10-1, B-10-2)

- 1) Remove the Loading Motor Assembly.
- 2) Remove one Nut(A) and then remove the Dew Bracket (Fig. B-5).
- 3) Remove the Pinch Lever Assembly by lifting it up(Fig. B-5)
- 4) Keep the Pinch Gear turned in the clockwise direction (180°).
- 5) Remove the Take-Up Lever by pushing the hook(A) outward(Fig. B-7).
- 6) Keep the Pinch Gear turned in the counterclockwise direction (180°).
- 7) Remove the Pinch Gear Assembly.





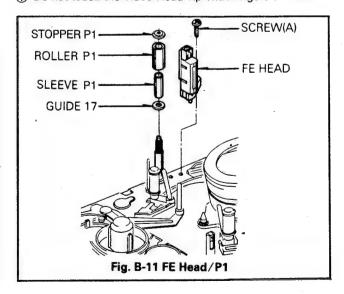
### \* NOTE

- 1) When reassembling, align the hole(A) of Pinch Gear with the hole of chassis, and the hole(C) of Pinch Gear with the groove(D) of the P.C.Gear. Hole(E) of chassis should be aligned with the hole of P.C.Gear.
- Be sure to replace together Take-Up Lever and Pinch Gear.
- Be sure to assemble Pinch Lever Assembly before operating.

## 11. FE(Full Erase) Head Assembly(Fig. B-11) (Optional Item)

- 1) Unplug the connector.
- 2) Remove one screw(A), and then remove the FE Head.

- 1) When disassembling and reassembling
- ① Do not touch the Video Head Tip with fingers or tools.



## 12. P1 Assembly(Fig. B-11)

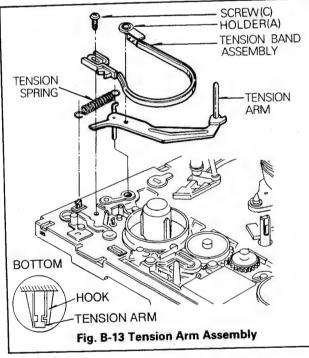
- 1) Remove the Stopper P1.
- 2) Remove the Roller P1.
- 3) Remove the Sleeve P1.
- 4) Remove the Guide 17.

## 13. Tension Arm Assembly(Fig. B-13)

- 1) Remove one screw(C).
- 2) Remove the Tension Spring.
- 3) Remove the Tension Arm Assembly by pushing hooks outward with the Deck Mechanism Assembly turned over
- 4) Remove the Tension Band Assembly from the Tension Arm by pushing Hooks of Holder(A).

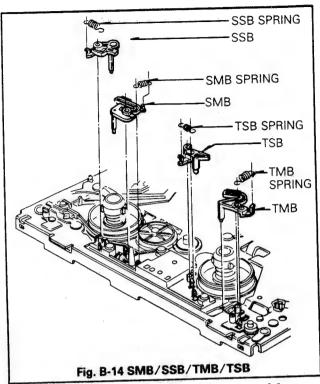
### . NOTE

 When disasembling and reassembling, give special attention to the disassembling and reassembling of Tension Arm Assembly, because the Tension Band is interposed between the Supply Reel and the Soft Brake.



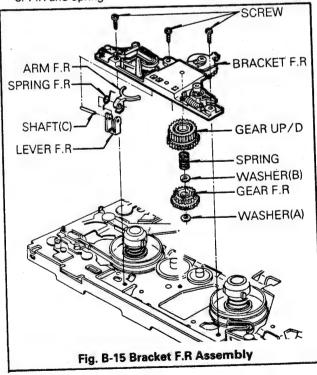
## 14. Supply Soft/Supply Main/Take-Up Soft/Take-Up Main Brake Assembly

- 1) Supply Soft Brake(SSB)
  - (1) Remove the SSB Spring.
  - ② Remove the SSB.
- 2) Supply Main Brake(SMB)
  - (1) Remove the SMB Spring.
  - ② Remove the SMB.
- 3) Take Up Soft Brake(TSB)
  - ① Remove the TSB Spring.
  - Remove the TSB.
- 4) Take-Up Main Brake(TMB)
  - ① Remove the TMB Spring.
  - 2 Remove the TMB.



## 15. Bracket F/R(FF/Rewind) Assembly (Fig. B-15)

- 1) Remove the TMB.
- 2) Remove the Washer(A), and then remove the Gear F.R.
- Remove three screws, and then remove Bracket F/R Assembly from the Deck Mechanism Assembly.
- Remove the Washer(B), and spring Up/D, and then remove the Gear Up/D.
- 5) Remove the shaft(C), and then remove the Arm F.R, Lever F.R and Spring F.R.



## 16. Supply Reel Assembly(Fig. B-16)

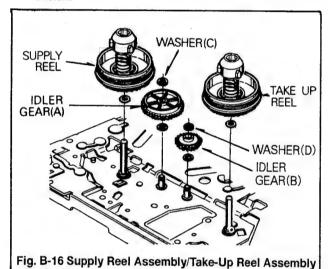
- 1) Remove the Tension Band Assembly.
- 2) Remove the Bracket F/R.
- Lift up the Supply Reel Assembly from the Deck Mechanism Assembly.

## 17. Take Up Reel Assembly(Fig. B-16)

- 1) Remove the TMB(Fig. B-14)
- Lift up the Take-up Reel Assembly from the Deck Mechanism Assembly.

### \* NOTE

- 1) When reassembling
- Make sure that the Supply and Take Up Reel are not exchanged.
- ② After reinstalling the Supply Reel Assembly, Adjust the Tension.

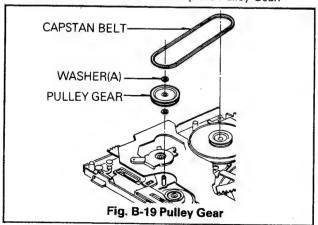


## 18. Idler Gear(A), (B)(Fig. B-16)

- After removing the Supply Reel and supply Main Brake Assembly, remove the washer(C) and then remove the Idler Gear(A).
- 2) Remove the Washer(D) and remove the Idler Gear(B).

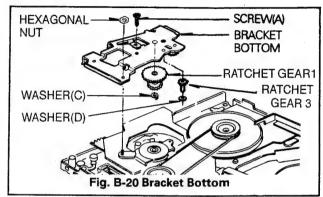
## 19. Pulley Gear Assembly (Fig. B-19)

- 1) Turn over the Deck Mechanism Assembly.
- 2) Remove the Capstan Belt.
- 3) Remove the Washer(A) and lift up the Pulley Gear.



20. Bracket Bottom Assembly (Fig. B-20)

- 1) Remove one screw(A).
- Remove one Hexagonal Nut, and then lift up the Bracket Bottom Assembly.
- 3) Remove one Washer(C), and lift up the Ratchet Gear 1.
- 4) Remove the washer(D), and then remove Ratchet Gear 3 from the Bracket Bottom.

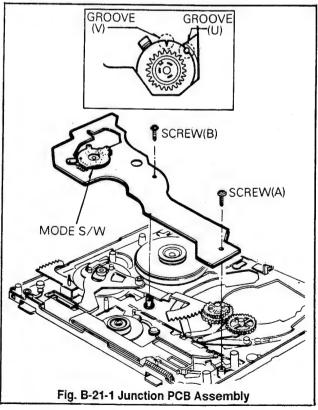


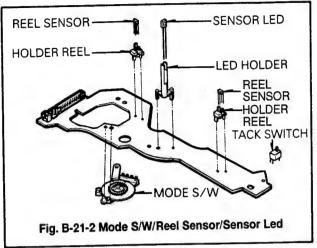
## 21. Junction PCB(Printed Circuit Board) Assembly(Fig. B-21-1)

- 1) Remove the Bracket Bottom Assembly.
- 2) Remove two screws(A), (B) and then remove the Junction P.C.B Assembly.
- 3) Remove the Mode Switch from the Junction P.C.B Assembly.
- Remove the Reel Sensor, Sensor LEDS and each holder from the Junction P.C.B(Fig. B-21-2).

### \* NOTE

 When reassembling the Mode Switch, the groove(V) and (U) of Mode Switch should be at their original place in the Eject Mode.



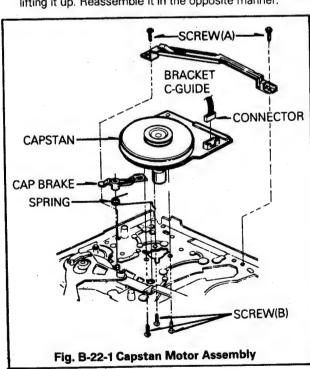


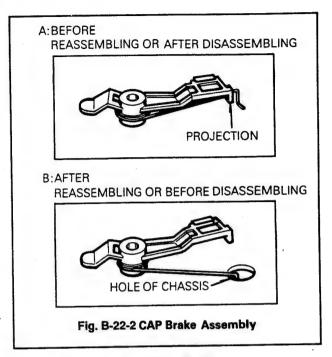
## 22. Capstan Motor and Brake Assembly (Fig. B-22-1)

- 1) Remove the Junction P.C.B Assembly
- 2) Hook the end of Capstan Brake Spring to the projection of Capstan Brake and then remove the Capstan Brake Assembly by lifting it up (Fig. B-22-2).
- Remove two Screws(A), and then remove the Bracket C-Guide.
- 4) Remove the Connector.
- Remove three screws(B), and then remove the Capstan Motor Assembly from the Deck Mechanism Assembly.

### \* NOTE

 When disassembling and reassembling, hook end of the spring on the projection of Cap-Brake and remove it by lifting it up. Reassemble it in the opposite manner.



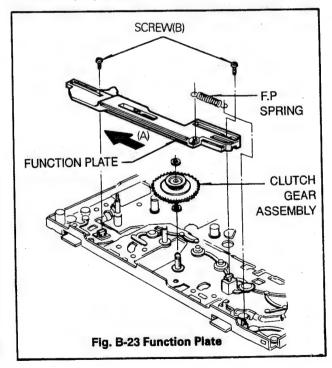


## 23. Function Plate(Fig. B-23)

- 1) Remove two screws(B) in Eject Mode.
- 2) Remove the Function Plate Spring.
- 3) Push the Function Plate in the direction of arrow(A) and then lift it up.

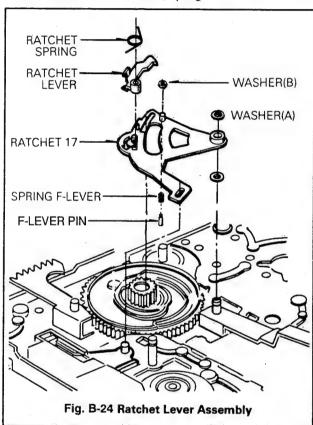
### \* NOTE

 When reassembling the groove of Lower part of Function Plate should be aligned with the shaft of Tension Lever Assembly (Fig. B-29).



## 24. Ratchet Lever Assembly(Fig. B-24)

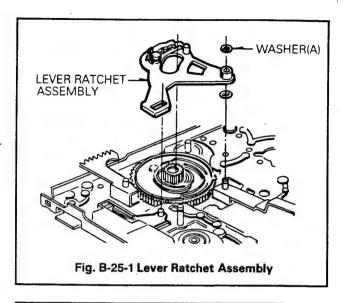
- 1) Remove the Function Plate.
- 2) Remove the Junction P.C.B Assembly.
- Remove the Washer(A) and then remove the Ratchet Lever Assembly.
- 4) Remove the Ratchet Spring.
- 5) Remove the Ratchet Lever from the Ratchet 17 by lifting it up when the hook of it is aligned with the hole of Ratchet 17 while rotating it counterclockwise direction.
- 6) Remove the Washer(B), and turn over the Ratchet 17 and then remove the F-Lever Pin, Spring F-Lever.

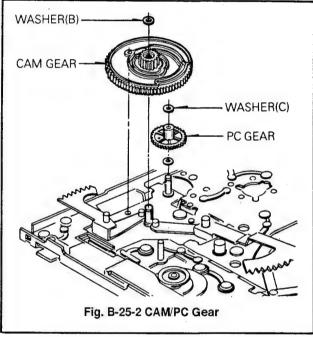


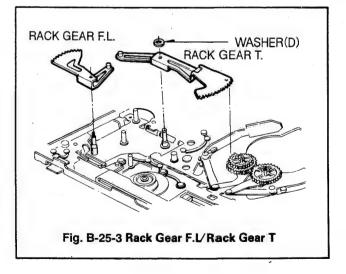
## 25. Cam Gear/Rack Gear T/Rack Gear FL(Fig. B-25-2)

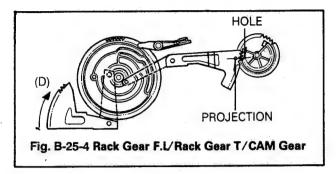
- 1) Remove the washer(A) and remove the Ratchet Lever Assembly. (Fig. B-25-1).
- 2) Remove the washer(B), and then remove the Cam Gear (Fig. B-25-2).
- 3) Remove the Rack Gear F.L. (Fig B-25-3).
- 4) Remove the Washer(D).(Fig. B-25-3).
- 5) Remove the Rack Gear T.(Fig. B-25-3).

- 1) When reassembling
- Align the Projection of Rack Gear T with the hole of Loading Gear.
- ② Drive the Rack Gear F.L in the direction of arrow(D).
- ③ Hole of Cam should be aligned with the hole of chassis, and the groove(■) of Cam Gear should be aligned with the hole of PC Gear (Fig. B-26).







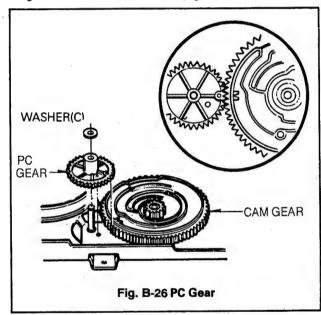


## 26. PC Gear(Fig. B-26)

- 1) Remove the washer(C).
- 2) Remove the P.C Gear by lifting it up.

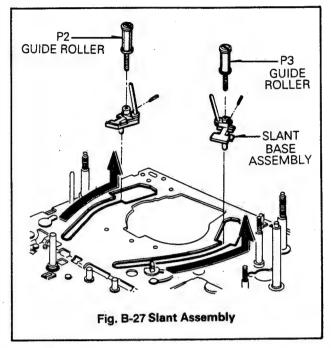
#### \* NOTE

- 1) When reassembling
- The Groove of PC Gear should be aligned with the groove(V) of Cam Gear, and another hole of it should be aligned with the hole of chassis (Fig. B-26).



## 27. P2 and P3 Slant Assembly (Fig. B-27)

- After finishing the disassembly of Drum Assembly, remove the P2 and P3 Slant Assembly by turning the Loading Gear(R) in the clockwise direction. (Loading direction)
- 2) Loosen the set screws.
- 3) Remove the Roller Guide from the Slant Base.



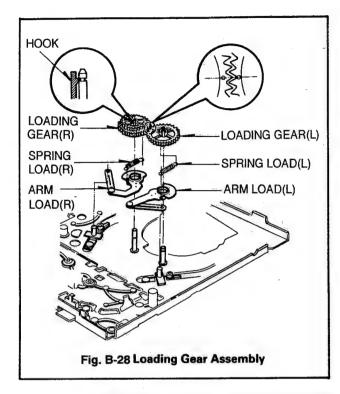
### \* NOTE

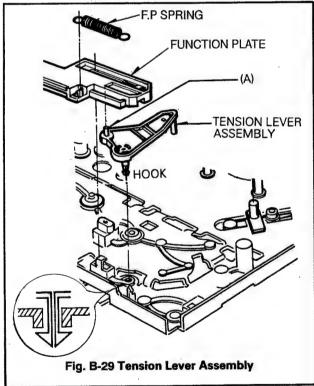
- 1) When disassembling and reassembling
- Use a Hexagonal wrench to remove set screw.
- ② Take notice that the P2 and P3 Slant Assembly should not be changed from their original place.

## 28. Loading Gear Assembly(L),(R) (Fig. B-28)

- 1) Remove the Cam Gear, Rack-T.
- Remove the P2 and P3 Slant Assembly by turning the Loading Gear(L),(R) in the Loading direction
- 3) Lift up the Loading Gear Assembly(L),(R) from the Deck Mechanism Assembly.
- 4) Remove the Spring Load(L),(R).
- 5) Separate the Loading Gear(L), (R) from Arm Load(L), (R).

- 1) When reassembling
- Make sure that the Loading Gear(L) and (R) should not be changed from their original place.
- ② Align the groove of Loading Gear(L),(O) with the groove of Gear(R),(O).





## 29. Tension Lever Assembly (Fig. B-29)

- 1) Remove the Function Plate.
- Remove the Tension Lever Assembly by pushing hooks inward.

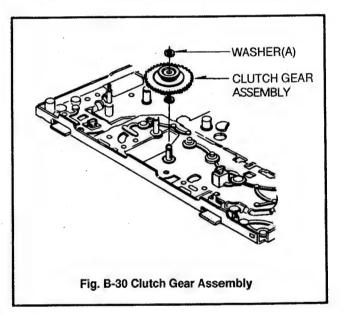
### \* NOTE

- 1) When reassembling
- ① Set the part(A) of Tension Lever Assembly in the groove of Lower part of Function Plate.

## 30. Clutch Gear Assembly (Fig. B-30)

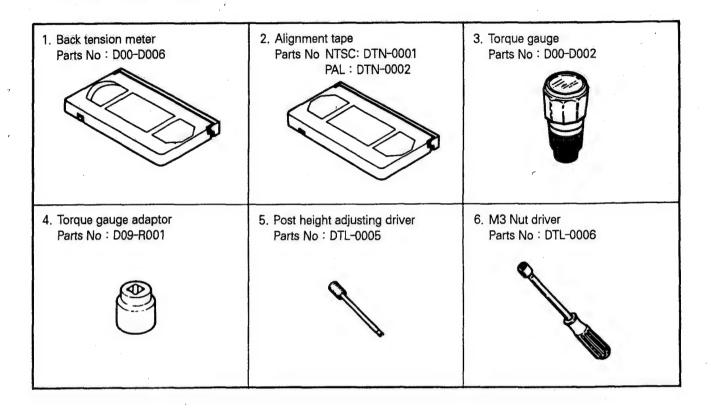
- 1) Remove the Pulley Gear.
- 2) Remove the Plate Function.
- Remove the washer(A), and then remove the Clutch Gear Assembly.

- 1) When reassembling
- ① Do not disassemble the Clutch Gear Assembly any futher, because Torque adjustment is not adjustible.



## **MECHANISM ADJUSTMENTS**

### • Tools and Fixtures for Deck



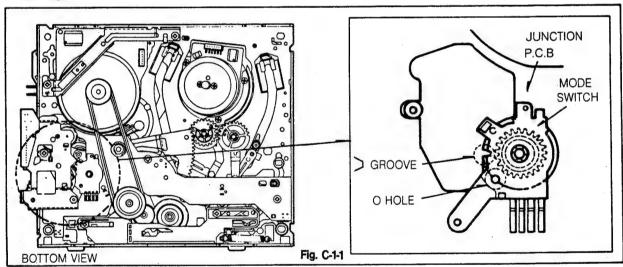
## 1. Mechanism State Switch (Mode Switch) Check

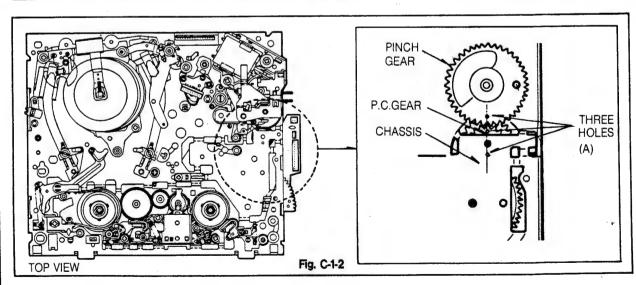
Purpose: To detect accurately the mechanism state and prevent the mechanism from malfunction.		
Test Equipment/Fixture VCR State Check Point		
● Blank tape	<ul><li>● Eject Mode (with cassette ejected)</li></ul>	<ul> <li>Mechanism state switch (Mode Switch and Cam)</li> </ul>

### **Check Procedure**

- 1) Turn the VCR on and eject the tape by pressing eject button.
- Remove the Cabinet Top, the Main P.C.Board and the CST Housing. Then push the CST IN/OUT switch (Loca. #137) and eject button at the same time
- 3) Turn the worm (Loca. #082) of Loading Motor Assembly (Loca. #A10) to the left side (counterclockwise) to align the three holes (A) of the Pinch Gear, the P.C.Gear and the Chassis.
- 4) Remove the Bottom Cover and then check that the groove (V) and the hole (O) of Mode S/W are aligned each other. If the above alignment is not obtained, adjust as follows.
  - (1) Remove the Bracket Assembly Bottom and the Capstan Belt in the state of power off.
  - (2) Remove the P.C.B Assembly, align the groove (V) and the hole (O) of Mode S/W each other and then reassemble the P.C.B Assembly.
  - (3) Turn the power on and perform the various operations to check that the loading and the unloading are correct.

### Check Diagram





# 2. Preparation for Adjustment(To set VCR to the loading state without inserting a cassette)

- 1) Unplug the power cord from the AC outlet.
- 2) Remove the Cabinet Top and Front Loading mechanism.
- 3) Plug the power cord into the AC outlet.
- Turn the VCR on and push the tact switch in the PCB Assembly.

The VCR can accept input of each mode in this case. However the rewind and review operation cannot be performed for more than a few seconds because the take-up reel table is in the stop state and reel pulses cannot be detected.

### (NOTE)

Always return the VCR to the Front Loading Mechanism Assembling State in the following order after the above operations have been performed.

- 1) Press the Eject button after turning the power on.
- Wait for about 10 seconds until searching out the assembly position.
- Assemble the Front Loading Mechanism and connect the Front Loading Mechanism Connector.
- Refer to the "Front Loading Mechanism Disassembly" which is described previously.

## 3. Tension Post Position and Tension Adjustment

Purpose: To make the tension of tape constant so that the contact between the video heads and tape is stabilized.

Test Equipment/Fixture	VCR State	Adjustment Point
Tension Meter (Tension adjustment)	Play without cassette and with a     Tension Meter	● Holder Band(B)

## **Adjustment Procedures**

(Position Adjustment)

- 1) Perform loading without inserting a tape and loosen the screw that attaches the Holder Band(B) to the Deck Mechanism Assembly.
- 2) Insert the (-)type driver between the Holder Band(B) and the "V" groove of the chassis.
- Move the Holder Band(B) right and left and align the center of tension post(Guide T-Post) with the center of P1(Shaft P1).(tolerance:Less than  $\pm 0.3$ mm)
- Tighten the screw that attaches the Holder Band(B) to Deck Mechanism Assembly.

(Tension Adjustment)

- 1) Play the Tension Meter and read the Tension Meter: 38g•cm±4g•cm(reference value).
- 2) If the result is abnormal.
  - (1) over the standard:loosen the screw, move the Holder Band(B) to the right a little and then tighten the screw and make sure that this adjustment is correct.

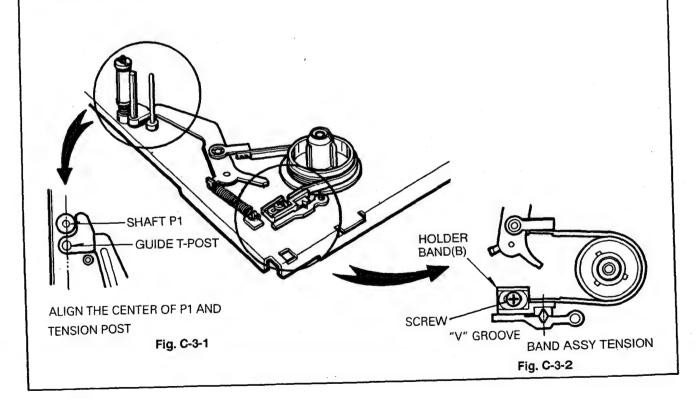
(2) below the standard:loosen the screw, move the Holder Band(B) to the left a little and then tighten the screw and make sure that this adjustment is correct.

## \*\*CAUTION\*\*

The range of movement of Holder Band(B) should be within ±1.5mm while being adjusted.

If the range is over, you should recheck the Reel Brake, Tension Arm and Spring.

## **Adjustment Diagram**



## 4. Checking Torque

**Purpose:** It is necessary to check the tension, torque and compression force at the tape take-up section and moving section to make the tape run smoothly and satisfy the basic performance of the VCR. Check these if the tape does not run smoothly or the tape speed is abnormal.

Test Equipment/Fixture	VCR state	
<ul> <li>Torque Gauge</li> <li>Torque Gauge Adaptor</li> <li>Cassette Torque Meter</li> <li>SRK-VHT-063: Play, Cue</li> <li>SRK-VHT-303: Review</li> </ul>	<ul> <li>Set the VCR to each operation mode without inserting a cassette.</li> <li>(See '2 Preparation for Adjustment')</li> </ul>	

ltem	VCR Operation mode	Measurement Reel	Measurement Values
Main brake torque,	Eject	Supply and take-up reels	600g.cm or more
Slack removal torque	Unloading(power off)	Supply reel	120~220g·cm
Fast forward torque	Fast forward	Take-up reel	600g·cm or more
Rewind torque	Rewind	Supply reel	600g-cm or more
Play take-up torque	Play	Take-Up reel	90~150g·cm
Review Torque	Review	Supply Reel	120~180 g.cm
CUE Torque	Cue	Take-Up Reel	110~170 g.cm

### **Checking Method**

The values are measured by using a torque gauge and torque gauge adaptor with the torque gauge fixed.

**Note:**This value is measured when the VCR is shifted in the unloading direction from the fast forward or rewind mode and quick braking is applied to both Reel Tables.

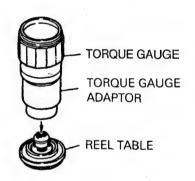


Fig. C-4

## 5. Guide Roller Height Adjustment

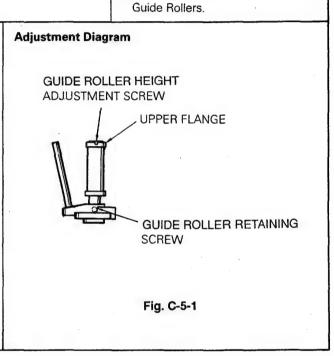
**Purpose:** To regulate the height of tape so that the bottom of tape runs along the tape guide line on the lower drum.

## A. Preliminary Adjustment

Test Equipment/Fixture	VCR State	Adjustment Point
<ul> <li>Hexagonal Wrench or Bended</li> <li>Drive (+) Type</li> <li>Post Height Adjusting Driver</li> </ul>	● Play an alignment tape	<ul> <li>Guide Roller Height Adjustment Screws on the Supply and Take-Up Guide Rollers.</li> </ul>

### **Adjustment Procedure**

- 1) Perform the precise adjustment.
- 2) When the Guide Roller is damaged, release the Guide Roller retaining screw and then replace the Guide Roller.



## **B. Precise Adjustment**

Test Equipment/Fixture	Test Equipment Connection Points	VCR State	Adjustment Point
<ul> <li>Oscilloscope</li> <li>Post Height Adjusting</li> <li>Driver</li> <li>Alignment Tape(30HMP-2)</li> <li>Hexagonal wrench</li> </ul>	CH-1:PB RF Envelope CH-2 /NTSC: SW30Hz /PAL: SW25Hz Head Switching Output Point RF Envelope Output Point	● Play an alignment tape	<ul> <li>Guide Roller Height Adjustment Screws.</li> </ul>

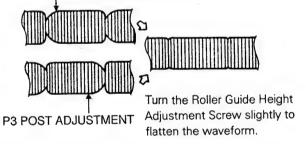
## **Adjustment Procedure**

- 1) Play an alignment tape after connecting the probe of the oscilloscope to RF Envelope Output Test Point and Head Switching Output Test Point.
- 2) Tracking control(in PB mode): Center position(When this adjustment is performed after the drum assembly has been replaced, set the tracking control so that the RF output is maximum.)
- 3) Height adjustment screw: Flatten the RF waveform.
- 4) Turn(Move) the tracking control(playback) clockwise and counterclockwise.(to the right and left)
- 5) Check that any drop of RF output is uniform at the start and end of the waveform.

### \*\*CAUTION\*\*

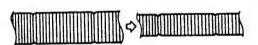
If the adjustment is excessive or insufficient the tape is jammed or folded.

### **Waveform Diagrams**



2 POST ADJUSTMENT

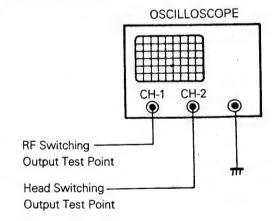
Fig. C-5-2



Tracking control at center Turn(Move) the tracking control to both directions.

Fig. C-5-3

### **Connection Diagram**



## 6. Audio/Control(A/C) Head Adjustment

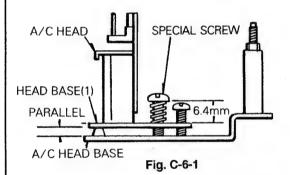
Purpose: To keep the contact between the tape and head so that the specificed track is recorded and played back.

A. Preliminary Adjustment (Perform the preliminary adjustment, when there is no Audio Output signal with alignment tape.)

Test Equipment/Fixture	VCR State	Adjustment Points
● M3 Nut Driver		<ul><li>Special screw</li><li>Cone Point Screw for tilt</li><li>Azimuth Adjustment Screw</li></ul>
Blank tape	● Run the blank tape	●A/C Head Adjuster

### Adjustment procedure/Adjustment Diagram

 Tighten the special screw so that the spring section protrudes 6.4mm(approx.) over the top of Head Base (1).



 Turn the Azimuth Adjustment Screw and Cone Point Screw so that the Head Base(1) and A/C Head Base are parallel.

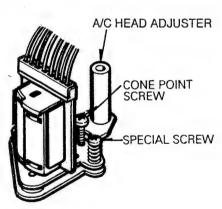
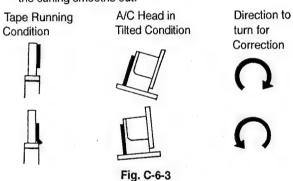


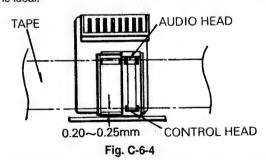
Fig. C-6-2

 Load a blank tape and set the VCR to the play mode.

- 4) Confirm that the tape runs fittingly to the lower limit of the P4 post. Also confirm that the tape runs smoothly.
- 5) If adjustment is required, turn Cone Point Screw clockwise until curling is apparent at the lower edge of P4. Then turn Cone Point Screw counterclockwise until the curling smooths out.



6) Check that there is no conspicuous curling and folding around the A/C head. If there is conspicuous curling or folding, readjust the Cone Point Screw, Azimuth Adjustment Screw and A/C Head Adjuster. When the bottom edge of tape is 0.20~0.25mm from the bottom edge of the control head's core, the height of A/C head is ideal.



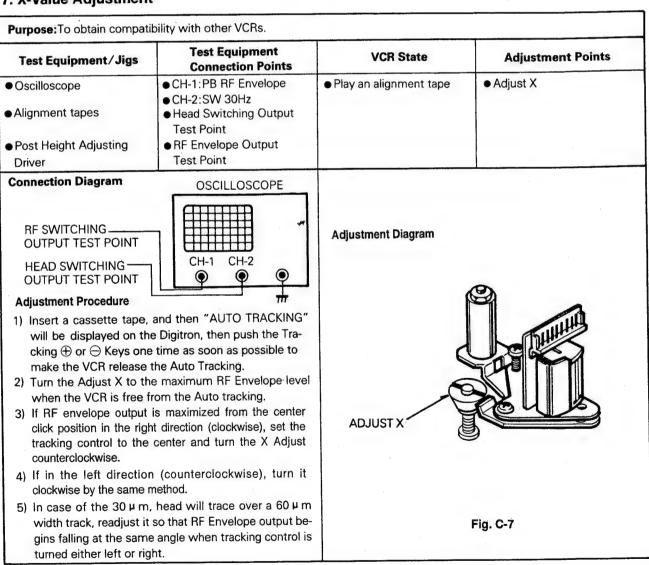
If necessary repeat steps 1 through 4 until a precise adjustment is achieved.

### **B. Precise Adjustment**

Test Equipment/Fixture	Test Equipment Connection Point	VCR State	Adjustment Points
Oscilloscope     Alignment tapes     M3 Nut Driver	Audio output jack	● Play an alignment tape 1KHz, 7KHz sections	<ul><li>Azimuth Adjustment Screw</li><li>A/C Head adjuster</li><li>Cone point screw</li></ul>
jack. 2) Adjust the Azimuth Adj adjuster and cone point s so that an Audio 1KHz ( (minimum fluctuation).	crew slightly and alternately butput is maximum and flat.	Waveform Diagram	B B'
<ol> <li>Adjust the Azimuth Adju alternately so that the Au</li> </ol>	stment Screw slightly and dio 7KHz output is maximum.	A:Maximum	BB':Minimum

Fig. C-6-5

## 7. X-Value Adjustment



## 8. Adjustment after Replacing Drum Assembly(Video Heads)

Test Equipment/Fixture	Test Equipment Connection Points	VCR State	Adjustment Points
<ul> <li>Oscilloscope</li> <li>Post Height Adjusting</li> <li>Driver</li> <li>Alignment tape</li> <li>Blank tape</li> <li>M3 Nut Driver</li> </ul>	Checking the flatness  CH-1:PB RF Envelope  CH-2 (NTSC: SW30Hz PAL: SW25Hz  Head Switching Output Point  RF Envelope Output Point	● Run the blank tape ● Play an alignment tape	<ul> <li>Guide Rollers Precise</li> <li>Adjustment</li> <li>Switching point</li> <li>Tracking point</li> <li>X-Value</li> </ul>
Connection Diagram		Waveform Diagram	
RF SWITCHING ————————————————————————————————————	OSCILLOSCOPE  O O O	V <sub>1</sub> V <sub>2</sub>	
•	ocedure k and adjust whether the Roll- easing tape around the Roller	V₁/V MAX ; V₃/V MAX ; RF ENVELC	
2) Check the RF envelope	output flatness and adjust the e playing an alignment tape.		

## 9. Check of Tape Travel after reassembling Deck Assembly

4) Check that RF envelope output is maximum when the

5) Adjust the Tracking Preset and X-Value Adjust with X

and RF Output Waveform fits to specification.

3) If the results checked above are abnormal, reapeat

adjustments 4 through 8.

tracking is at the initial position.

Adjust.

## 9-1. Check Audio and RF Locking Time during playback after CUE or REV.

Test Equipment/Fixture	Specification	Test Equipment Connection Point	VCR State
<ul> <li>Oscilloscope</li> <li>Alignment tape</li> <li>(with 6H 3kHz Color Bar Signal)</li> <li>Stop Watch</li> </ul>	RF Locking Time: Less than 5 sec. Audio Locking Time: Less than 10 sec.	<ul> <li>CH-1: PB RF Envelope</li> <li>CH-2: Audio Output</li> <li>RF Envelope Output Point</li> <li>Audio Output Jack</li> </ul>	Play an alignment tape (with 6H 3kHz Color Bai Signal)

\* 6H:LP

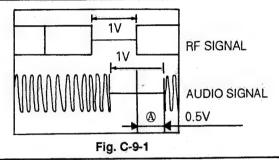
Fig. C-8

## 9-2. Check the coincidence of both Audio and Video Sync.(Lip Sync.)

Test Equipment/Fixture	Specification	Test Equipment Connection Point	VCR State
Oscilloscope  2H 9V Tape(for X-Value Adjustment Coincidence) or alignment tape	● Less than ±0.5V	CH-1: PB RF Envelope CH-2: Audio Output RF Envelope Output Point Audio Output Jack	● Play a 2H 9V tape or an alignment tape.

### **Checking Procedure**

- 1) Confirm that the period A of Fig. C-9-1 is within  $\pm 0.5$ V.
- If the result is abnormal, repeat adjustment #7. (X-Value adjustment).



\* 2H: SP, V: Vertical

### 9-3. Check the occurance of tape curl and jam

Test Equipment/Fixture	Specification	VCR State
● T-160 Tape ● T-120 Tape	Be sure there is no jam or curl at the beginning, the middle period or the end of the T-160 tape.	<ul> <li>Run the CUE, REV play mode at the beginning and the end of the tape.</li> </ul>

### **Checking Procedure**

- 1) Confirm whether the state of each transportation post is
- Make sure nothing is wrong with the operation of the Counter, when the lower part of tape is folded.
- 3) Be sure there is nothing wrong in the Audio signal, when the upper part of tape is folded.
- 4) If the result is abnormal, repeat adjustment #5 and #6.

## 9-4. Check the adjustment state of Take-Up Guide

Specification	
<ul> <li>Review: Travel the tape that align the top of the P4 Guide and the bottom of the Tape or be folded.</li> <li>Play: Travel the tape that align the top of the P4 Guide and the bottom of the Tape.</li> </ul>	

### **Checking Procedure**

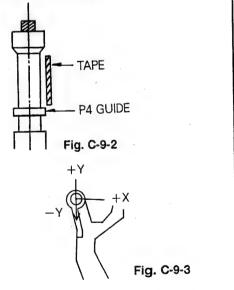
- 1) Run the CUE or PLAY mode at the middle period or the end of the T-120 tape.
- 2) Run the REV mode at the play or cue part of tape.
- 3) At this time, confirm that the change of tape height at the P4 Guide fits to specification.
- 4) If the result is abnormal, refer to Table 9-1.
- 5) Play the beginning of T-120 tape(within 5 min.)
- Confirm that the state of tape transportation fit to specification in P4 Guide.
- Remove the Tension Arm Assembly by rotating in the clockwise direction and then confirm that the state of tape transportation fit to specification.

Table 9-1

8) If the result is abnormal, refer to Table 9-1.

PLAY Mode REV Mode		PLAY Mode REV Mode Adjustment		Adjustment Method
Tape Falling	Tape Lift	Bend the shaft of the direction +Y.		
Tape Lift	Tape Falling	Bend the shaft of the direction -Y.		





### 10. Maintenance/Inspection Procedure

### (1) Required Maintenance

The recording density of a VCR is much higher than that of an audio tape recorder. VCR components must be very precise, at tolerances of 1/1000mm, to ensure compatibility with other VCRs. If any of these components are worn or dirty, the symptoms will be the same as if the part is defective. To ensure good picture, periodic inspection and maintenance, including replacement of worn out parts and lubrication, are necessary.

### (2) Scheduled Maintenance

Schedules for maintenance and inspection are not fixed because they vary greatly according to the way in which the customer uses the VCR, and the environment in which the VCR is used.

But, in general home use, a good picture will be maintained if the inspection and maintenance is made every 1,000hours. The table below shows the relation between time used and inspection period.

Table 1

When inspection is necessary  Average hours used per day	About 1 year	About 18 months	About 3 years
One hour	////////	//////	
Two hours			
Three hours	/////		

### (3) Check before starting repairs

The following faults can be remedied by cleaning and oiling. Check the needed lubrication and the conditions of cleanliness in the unit.

Check with the customer to find out how often the unit is used, and then determine that the unit is ready for in spection and maintenance. Check the following parts.

Table 2

Phenomenon	Inspection
Poor S/N, no color	Dirt on video head or
	worn video head
Tape does not run or tape	Dirt on pressure roller, belt
is slack	or flywheel belt
Vertical jitter, horizontal	Dirt on video head or in
jitter	tape transport system
Color beats	Dirt on full-erase head
Low volume or sound	Dirt on audio/control head
distorted	
Fast forward or rewind is	Dirt on belt
not done or rotation is	
slow	

### (4) Supplies Required for Inspection and Maintenance

- (1) Greases Kanto G-31(or equivalent)
- (2) Alcohol(Isopropyl Alcohol)
- (3) Cleaning Patches

### 5) Maintenance Procedure

### 5-1) Cleaning

(1) Cleaning video head

First use a cleaning tape. If dirt on head is too stubborn to remove by tape, use the cleaning patch. Coat the cleaning patch with alcohol(Isopropyl Alcohol) to the point indicated. Touch the cleaning patch to the head tip and gently turn the head(rotating cylinder) right and left.

(Do not move the cleaning patch vertically and make sure that only the buckskin on the cleaning patch comes into contact with the head. Otherwise, the head may be damaged.)

Thoroughly dry the head. Then run test tape. If alcohol (Isopropyl Alcohol) remains on the video head, the tape may be damaged when it comes into contact with the head surface.

(2) Clean the tape transport system and drive system, etc, by wiping with a cleaning patch wetted with alcohol (Isopropyl Alcohol).

### Note:

- It is the tape transport system which comes into contact with the running tape. The drive system consists of those parts which move the tape.
- ② Make sure that during cleaning you do not touch the tape transport system with the tip of a screw driver and no force is applied to the system that would cause deforming.

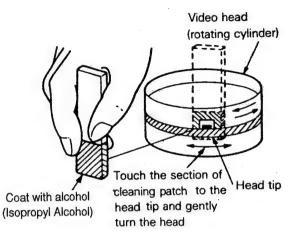


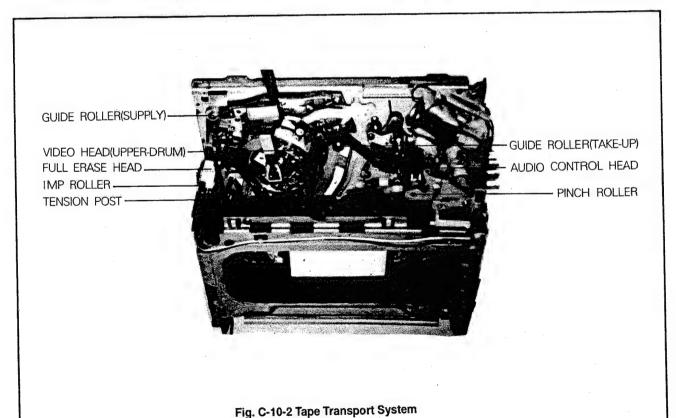
Fig. C-10-1

### 5-2) Greasing

(1) Greasing guidelines

Apply grease, with a cleaning patch. Do not use excess grease. It may come into contact with the tape transport of drive system. Wipe any excess and clean with cleaning patch wetted in alcohol(Isopropyl Alcohol).

(2) Periodic greasing
Grease specified locations every 5,000hours.



Phenomenon	Inspection	Replace ment	
Color beats	Dirt on full-erase head	0	<b>→</b> ①
Poor S/N no color	Dirt on video head	0	<b>→</b> ②
Vertical jitter	Dirt on video head Dirt in tape transport system	0	<b>→</b> (3)
Low volume, Sound distorted	Dirt on audio/control head	- 0	<b>→</b> ④
Tape does not run. Tape is slack	Dirt on pinch roller.	0	→ ⑤

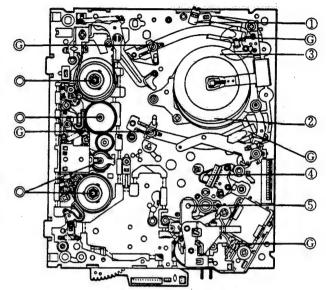


Fig. A-11 Top View of Mechanism

Phenomenon	omenon Inspection Location		
Do not fast forward or rewind, or rotation is slow	Dirt on reel belt	0	G
Tape does not run			, ,
Slack tape			

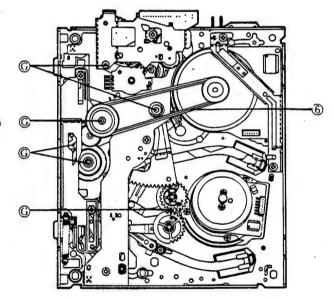


Fig. A-12 Bottom View of Mechanism

Note:If locations marked with O do not operate normally after cleaning, check for wear and replace.

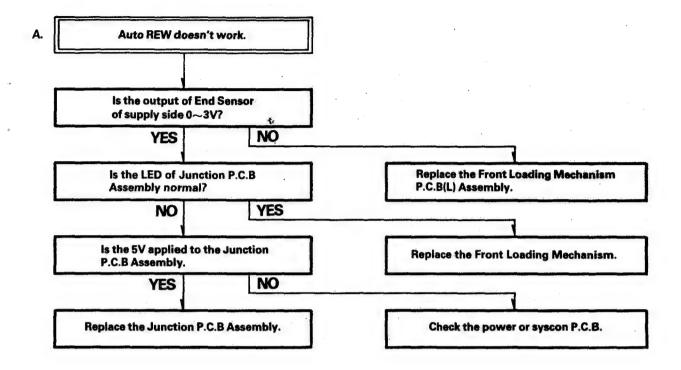
See the EXPLODED VIEWS at the end of this manual as well as the above illustrations for the sections to be lubricated and greased.

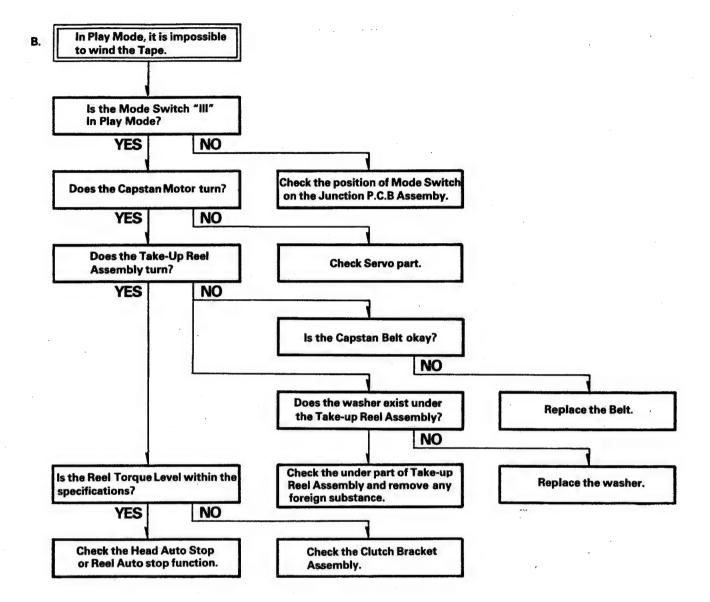
©:Grease

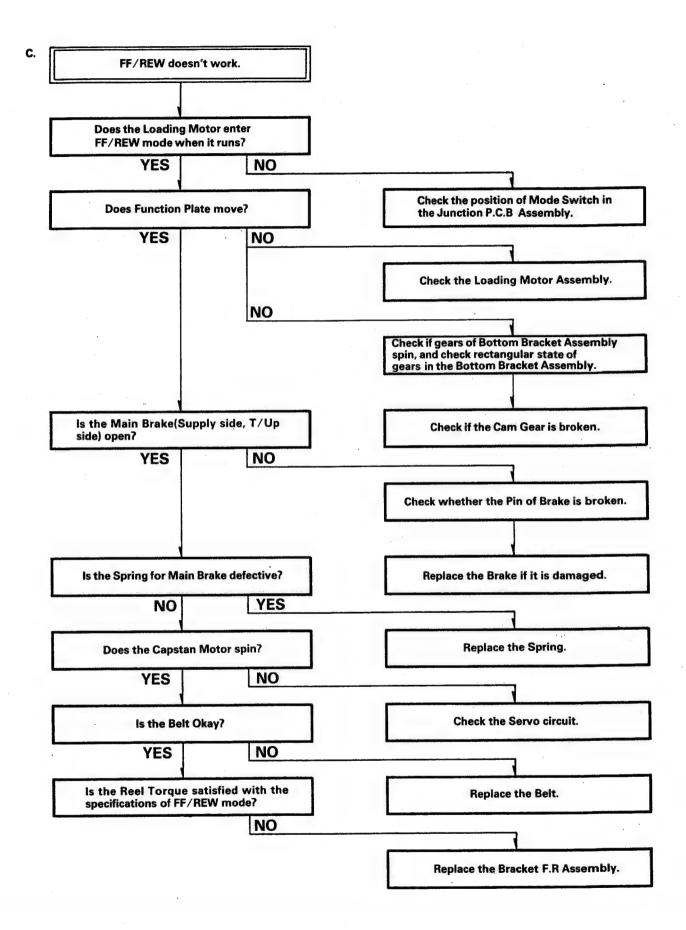
O:Oil

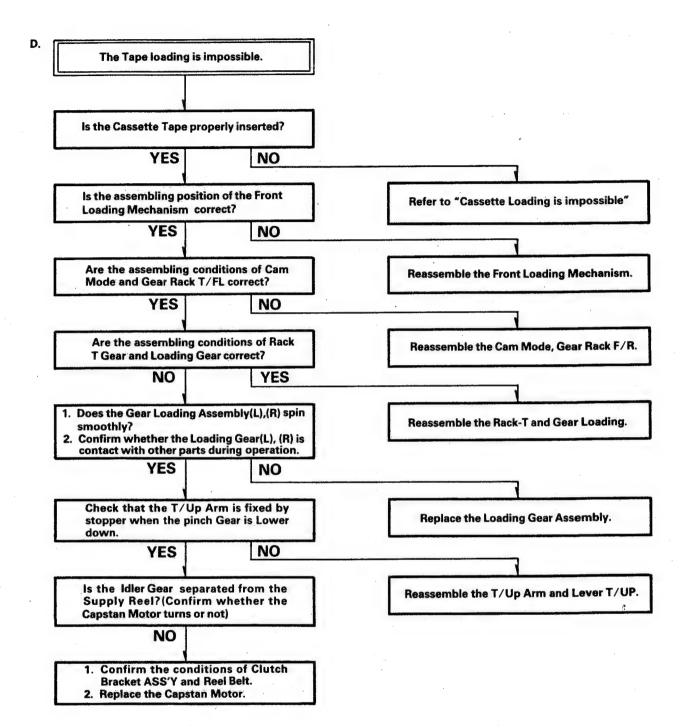
## **MECHANISM TROUBLESHOOTING GUIDE**

## 1. Deck Mechanism

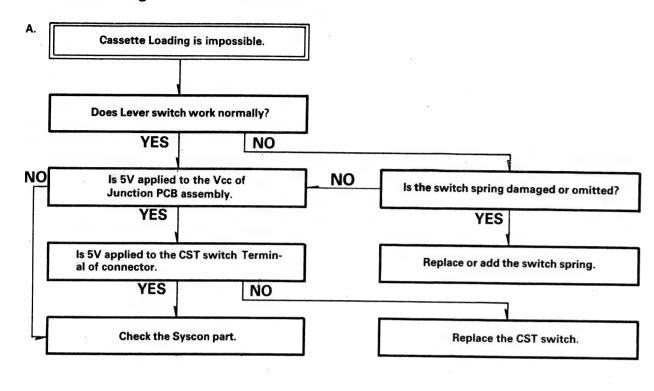


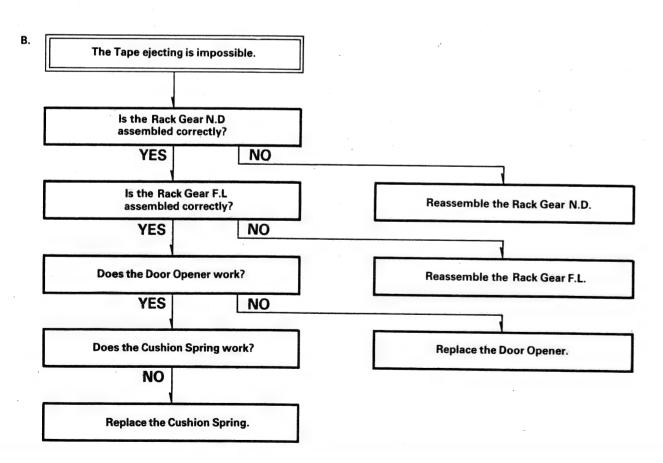


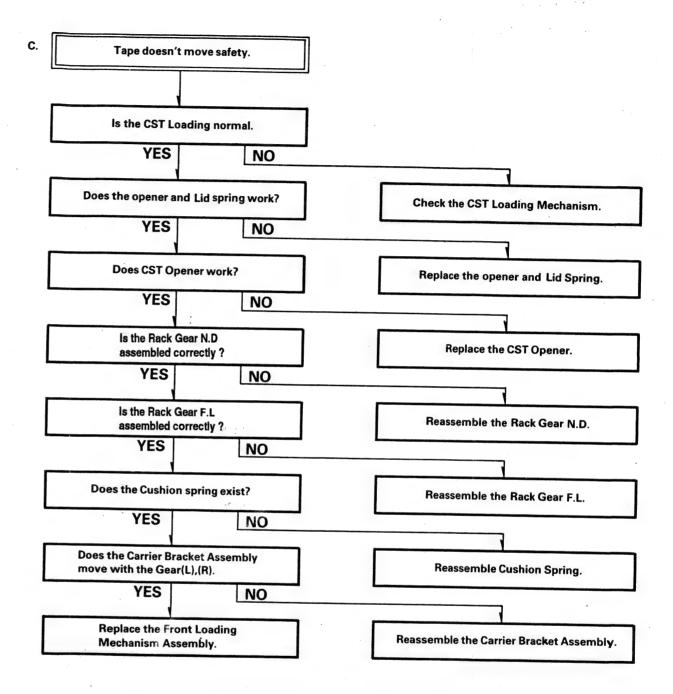


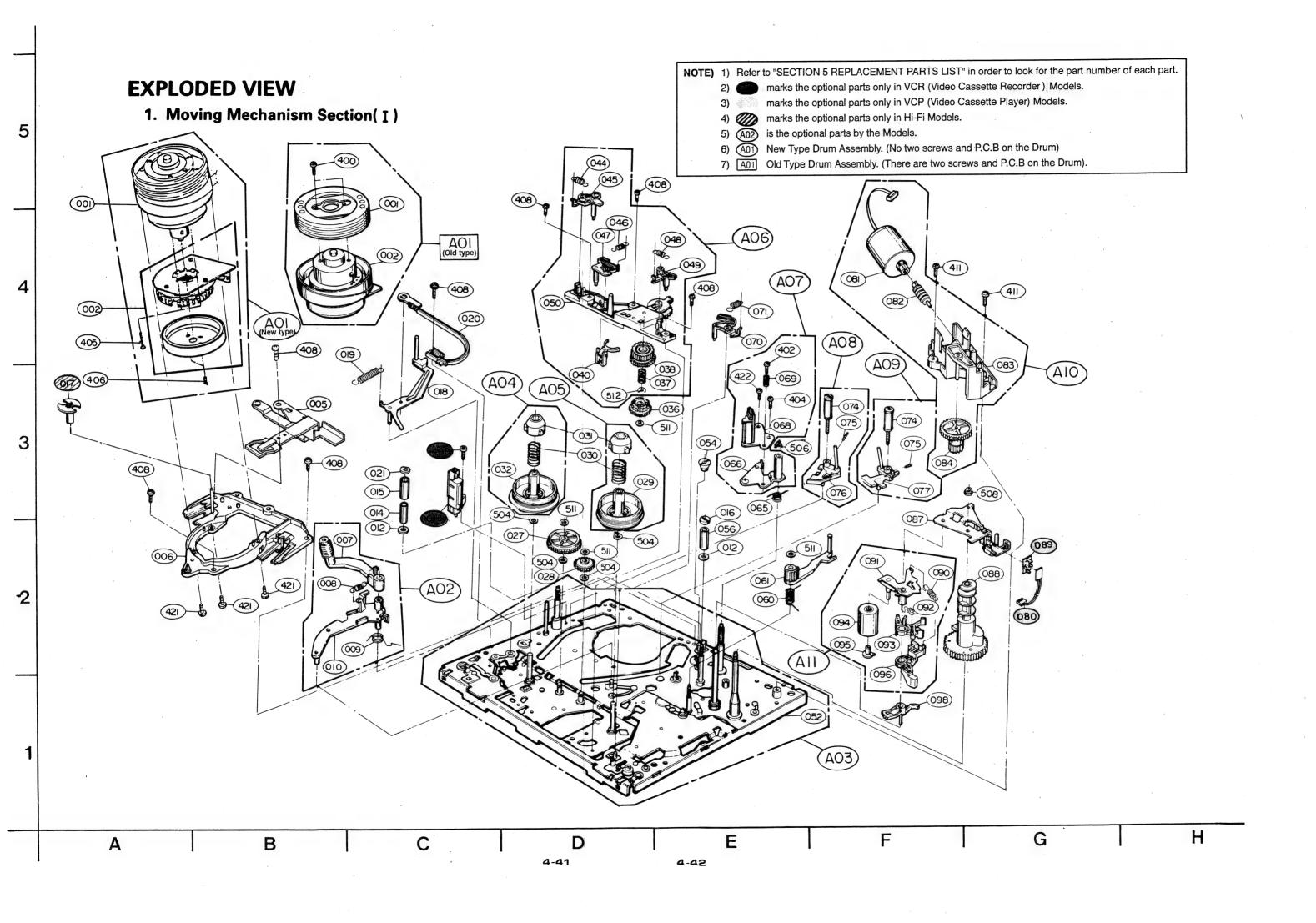


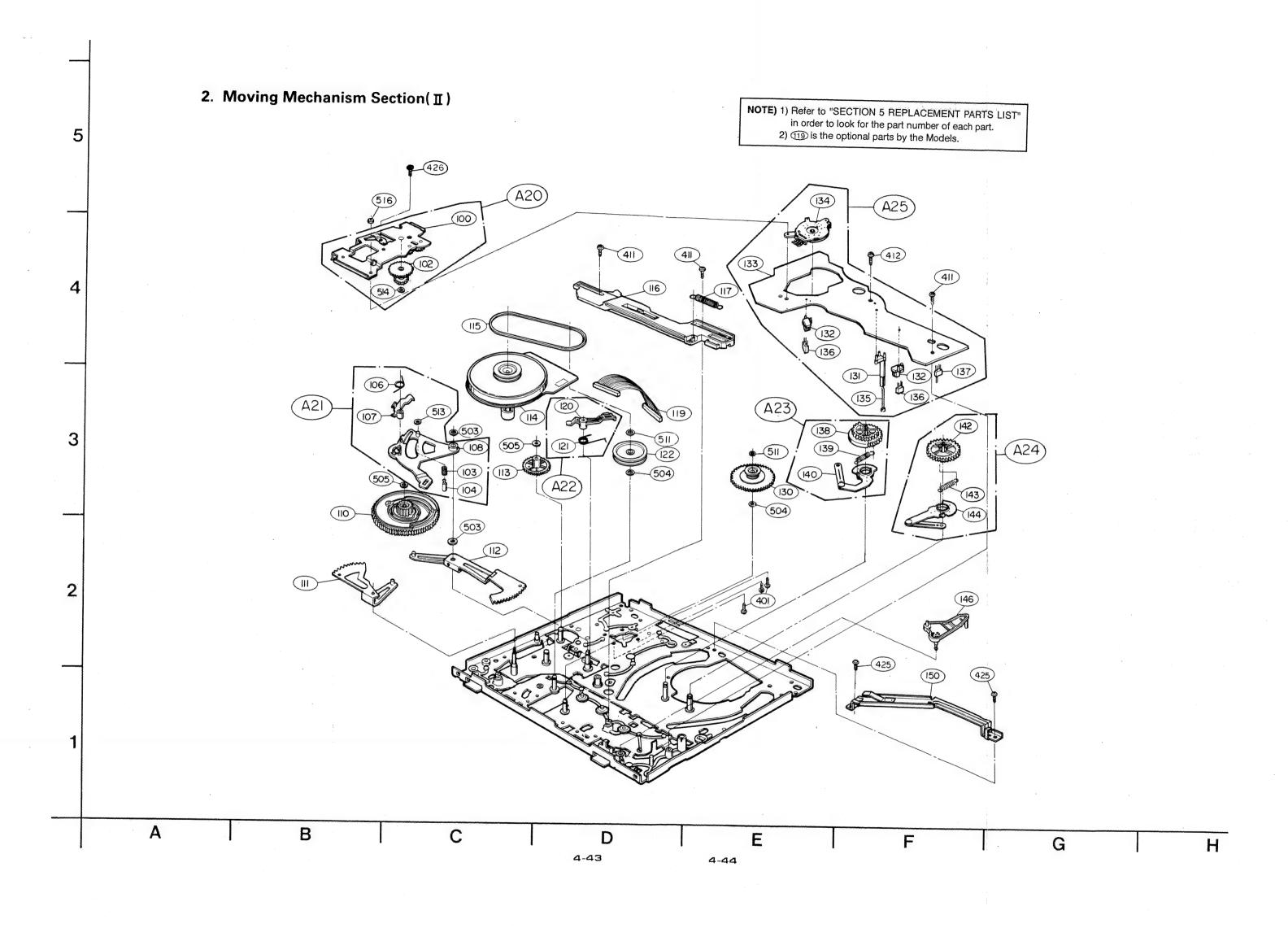
# 2. Front Loading Mechanism

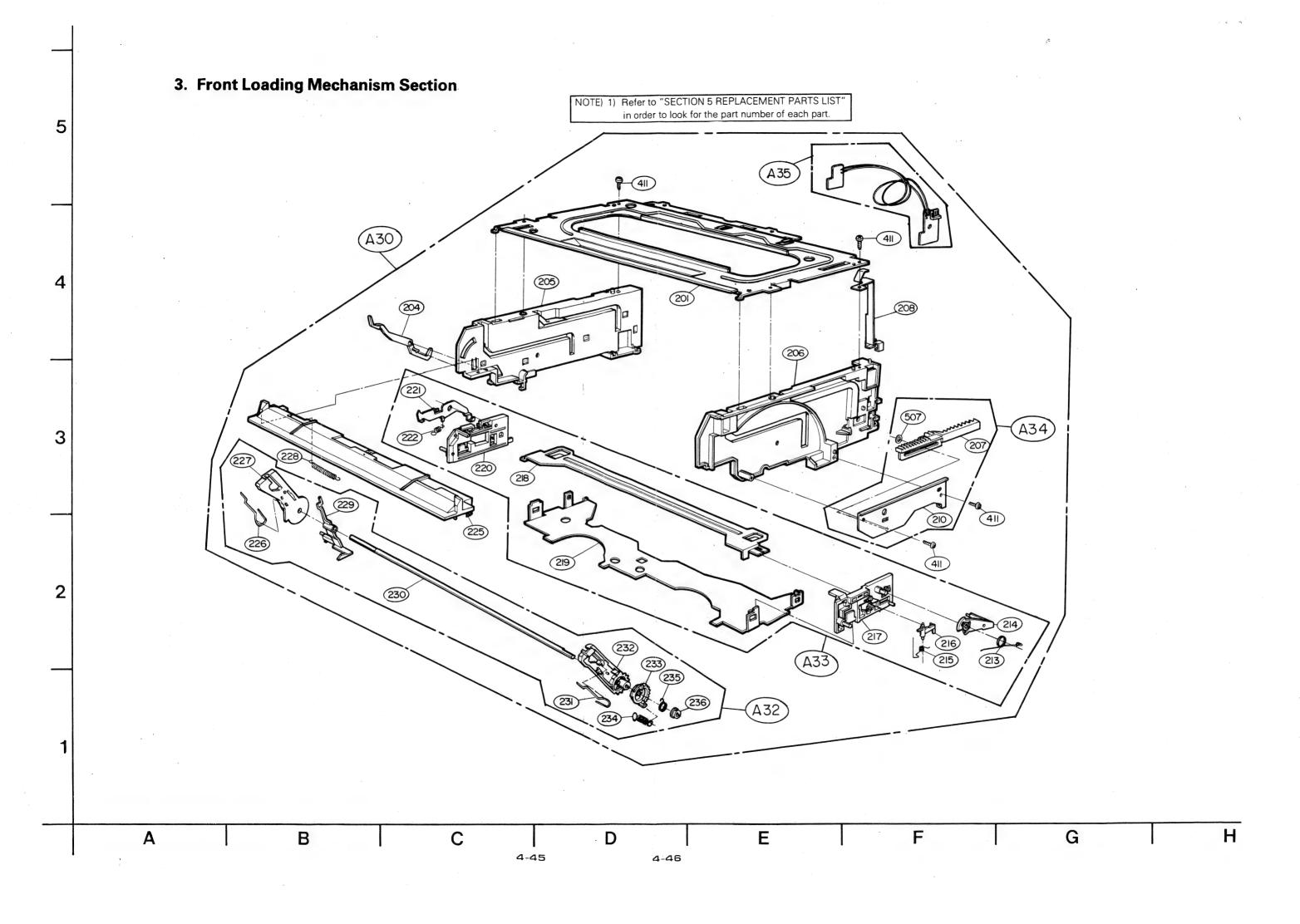




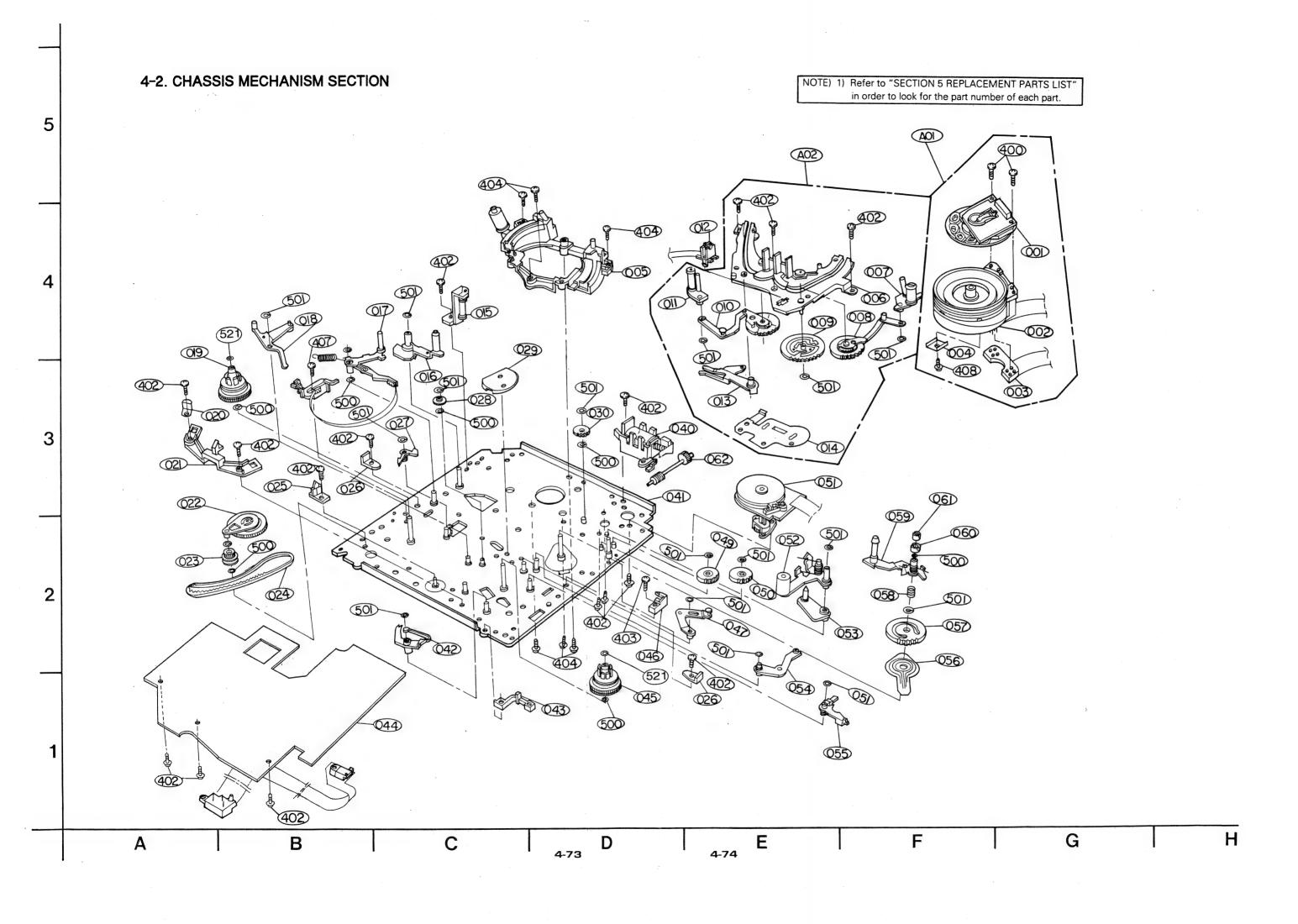








4. EXPLODED VIEW NOTE) 1) Refer to "SECTION 5 REPLACEMENT PARTS LIST" in order to look for the part number of each part. 4-1. CASSETTE HOUSING SECTION В G



# **SECTION 4-2.8 mm DECK MECHANISM**

# PERIODICAL CHECK AND MAINTENANCE

For the normal operation and the protection of Tape, the periodical checking and maintaining is required like the unit.

Perform the following steps after the adjustment without the used time.

# 1. ROTARY DRUM ASSEMBLY CLEANING

Stick the smooth swab moistened with the cleaning water fast to the rotary Drum Slightly, and then rotate the Rotary Upper Drum with a finger to the counter-clockwise slowly.

### NOTE:

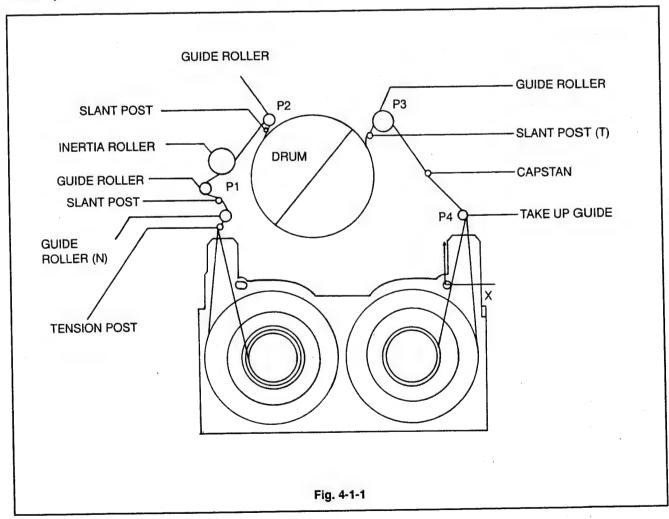
Be careful so the Motor is not to rotate the Drum and not to rotate to the clockwise. Do not use the swab moistened with the cleaning water to the Head Vertically.

# 2. TAPE LOADING COURSE CLEANING

Set the Cassette Compartment to the Eject State or remove it, and then wipe the Tape loading Course (No. 1 Guide~No. 7 Guide Capstan Shaft, Pinch Roller) with the Chamois Leather Moistened in cleaning water.

# 3. DRIVE SYSTEM CLEANING

Wipe the Drive System (Timing Belt, Surface of Reel Table etc.) with the Chamois Leather moistened in cleaning water.



Check Parts			Time (Hours) (H)							Remarks		
			1,000	1,500	2,000	2,500	3,000	3,500	4,000	4,500	5,000	Nomano
Cleaning	Tape path surfaces Cleaning	0	0	0	0	0	0	0	0	0	0	Be careful about oil
and Demag- netizing	Rotary drum assembly Cleaning and demagnetizing	0.	0	0	0	0	0	0	0	0	0	Be careful about oil
	Relay belt	-	☆	-	☆	_	☆	_	☆	_	☆	
Drive System	Capstan shaft		0	_	0	_	0	-	0	_	0	Be careful about that the Oil do not drop
System	Idler pulley axle	ı	0	-	0	_	0	_	0	-	0	on the surface of Tape Path
	Loading Motor	_	☆	-	☆	-	☆	_	☆	_	☆	
	Abnormal noise	₩	☆	☆	☆	☆	☆	☆	☆	☆	☆	
Perfor- mance	Brake tension Measurement	-	☆	_	☆	_	☆	_	☆	_	☆	
Check	Brake system	-	☆	_	☆	_	☆	-	☆	_	☆	-
	FWD, RVS torque Measurement	_	☆	_	☆	_	Δ	-	☆	-	☆	

#### NOTE:

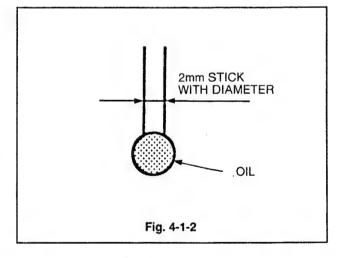
During checking the Unit, refer the Time Table above for the parts change etc.

# Oiling:

- Use the regular Oil always.
   (If the unregular oil is used, the Unit may get demaged.)
- Apply the clean oil on the position used the shaft bearing.
- "Oil 1 drop" means the quantity of degree hanged to the end of 2mm Stick with diameter. (Refer to Fig. 4-1-2)

# Grease:

• Use the regular Grease.



# DECK MECHANISM DISASSEMBLY AND REASSEMBLY

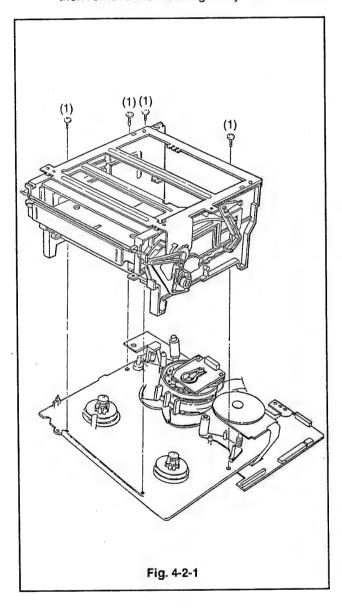
# 1. Front Loading Mechanism

# 1-1. Housing Ass'y Disassembly

1) Disassembly (Fig. 4-2-1)

(1) Set the unit to the ULC Mode (Unloading Mode).

(2) Remove 4 Screw(1) on the upper part and then remove the Housing Ass'y CST.



# 2. DC MOTOR (Capstan motor) ASS'Y

2-1. Disassembly (Fig. 4-2-2)

(1) Set the Unit on the ULC Mode (Unloading).

(2) Remove the DC Motor Ass'y by releasing 3 Screws(3) on the lower part of the Chassis.

2-2. Reassembly (Fig. 4-2-2)

(1) Engage the Capstan Gear with the conversion Gear by fixing the 2 Guider bosses and 3 Guider Holes on the Upper part of Chassis into the 2 Guider Holes on the Capstan Gear.

(2) Set the DC Motor Ass'y with 3 Screws(3) on the

Lower part of Chassis.

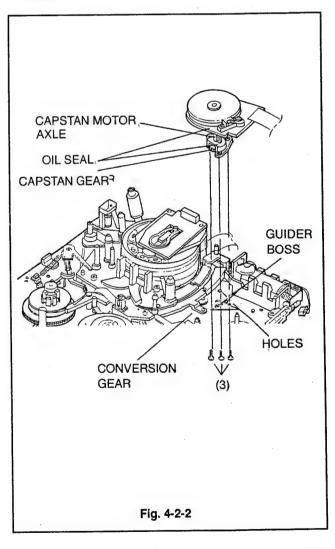
#### NOTES:

· Use the about 2kgfcm Torque to fix Screw.

 Do not engage with the Gears by forces, because the Capstan Gear is easy to get demaged.

· Stick the DC Motor fast to the Chassis completely.

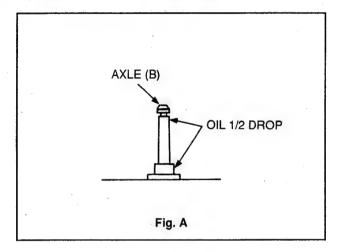
 Do not touch the Capstan motor Axle, Oil Seal and Rotor.

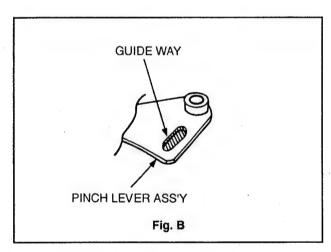


# 3. PINCH ARM ASS'Y AND PINCH LEVER ASS'Y

## 3-1. Disassembly (Fig. 4-2-3)

- (1) Set the Unit to the ULC Mode.
- (2) Remove the Pinch Arm Ass'y by removing the stopper Washer.
- (3) Remove the Pinch Lever Ass'y.



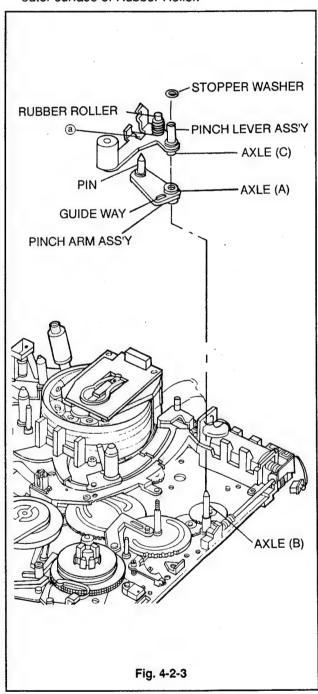


# 3-2. Reassembly (Fig. 4-2-2, 4-2-3)

- (1) Apply Oil 1/2 drop to the Axle(B) 2 point.
- (2) Apply greese in the in side of Guide on the Pinch Lever Ass'y (Fig. B).
- (3) Stick the Axle(A) of Pinch Lever Ass'y in the Axle B and assemble so the Roller is to be approached to the Guide Way.
- (4) Assemble so the Pinch Lever Ass'y pin is sticked in the ⓐ point by inserting the Pinch Arm Ass'y Axle(C) in the Axle (reassembling state).
- (5) Set the Stopper Washer.

#### NOTES:

- Be careful the Nut is not to touch the Rubber Roller when reassembling the Pinch Arm Ass'y to Axle.
- Be careful the object material is not to stain the outer surface of Rubber Roller.



# 4. TAKE UP ARM ASS'Y

# 4-1. Disassembly (Fig. 4-2-4)

(1) Set the Unit to the ULC Mode.

(2) Remove Nut(A) by using the (-) Driver.

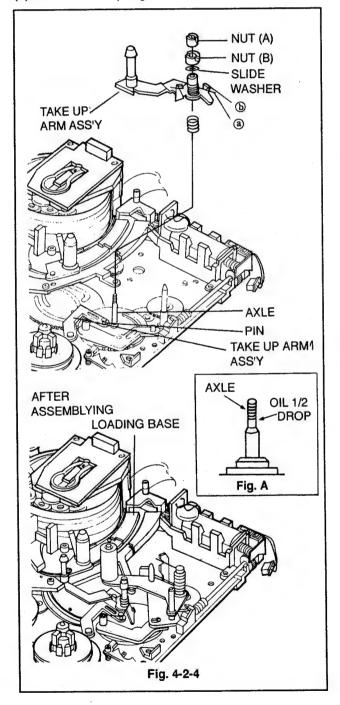
(3) Remove Nut(B) by using the exclusive Driver.

(4) Remove the Slide Washer.

(5) Remove the Take Up Arm Ass'y.

At this time, remove after the Spring Arm a point is to be supported to the Vertical Bending part point of Take Up Arm Ass'y.

(6) Remove the Spring.



## 4-2. Reassembly (Fig. 4-2-4)

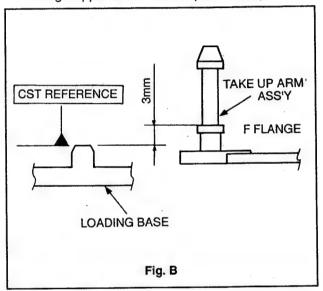
(1) Apply the Oil 1/2 drop on the Axle.

(2) Assembly the Compression Spring, Take Up Arm Ass'y, Slide Waher, Nut(B) and Nut(A) to the Axle.

(3) Strain the Spring Arm (a) point of Take Up Arm Ass'y to the front to be stopped by sticking in the in side of Take Up Lever Ass'y Pin.

### 4-3. Take Up Arm Ass'v Height Adjustment

(1) Adjust to 3mm the height between the Cassette install standard side of Loading Base and the Frange Upper side of Take Up Arm Ass'y.



### NOTES:

 Do not force the Spring Arm unreassembly during disassembly and reassembly, it may cause the transformation of spring.

Readjust the Take Path after reassembly.

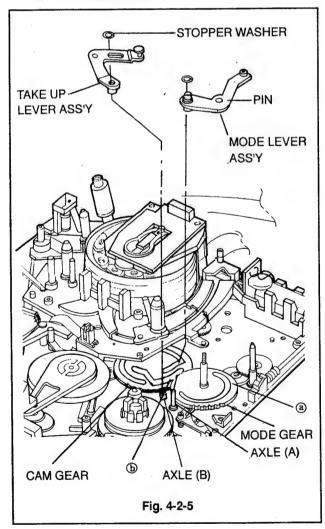
# 5. MODE LEVER ASS'Y and TAKE UP LEVER ASS'Y

## 5-1. Disassembly (Fig. 4-2-5)

- (1) Set the Unit to ULC Mode.
- (2) Remove the Stopper Washer and then remove the Mode Lever Ass'y.
- (3) Remove the Stopper Washer and then remove the Take Up Lever Ass'y.

#### 5-2. Reassembly (Fig. 4-2-4, 4-2-5)

- (1) Apply the Grease in the CAM trace (a) of Mode Gear.
- (2) Apply the Oil 1/2 drop to the Axle.
- (3) Stick the Mode Lever Ass'y pin in the CAM trace
  a of Mode Gear and then assemble the Mode Lever Ass'y to the Axle(A).
- (4) Set the Stopper Washer.
- (5) Apply the Oil 1/2 drop to the Axle(B).
- (6) Stick the Take Up Lever Ass'y pin in the CAM trace (b) of CAM Gear and then assemble the Take Up Lever Ass'y to the Axle.
- (7) Set the Stopper Washer.



# 6. SOFT BRAKE ASS'Y AND T/BAND PROTECT

#### 6-1. Disassembly (Fig. 4-2-6)

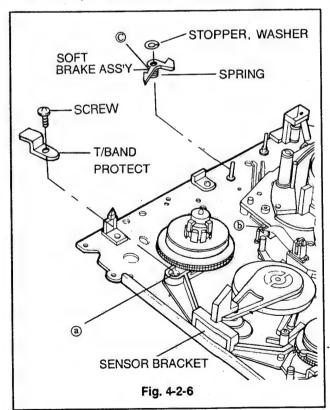
- (1) Set the Unit to the ULC Mode.
- (2) Hook the Spring Arm point © stuck in the Vertical Bending part point ⑤ on the Upper part of Chassis to the Spring hanger of Soft Brake Ass'y.
- (3) Remove the Stopper Washer and then remove the Soft Brake Ass'y.
- (4) Release the Screw and remove the T/Band Protect.

## 6-2. Reassembly

- (1) Stick the T/Band Protect in the Sensor Bracket point (a).
- (2) Set the Screw to point (a) using the (+) Driver.
- (3) Set the Soft Brake Ass'y to the Axle.
- (4) Set the Stopper Washer.
- (5) Assemble the Spring Arm point © stuck in the Soft Brake Ass'y supports the Vertical Bending part point (a) on the upper part of Chassis.

#### NOTES:

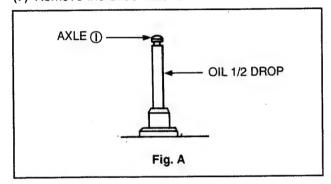
- Use the about 1.2kgf cm Torque to fix the T/Band Protect Set Screw.
- Do not force the Spring Arm © unreassembly, it may cause the transformation of Spring.
- During T/Band Protect assembling, be careful the Reel Ass'y Gear not to be denaged.

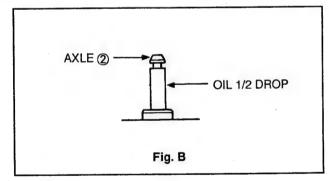


# 7. TENSION REGULATOR ASS'Y AND SLANT ROLLER ARM ASS'Y

# 7-1. Disassembly (Fig. 4-2-6, 4-2-7)

- (1) Set the Unit to the ULC Mode.
- (2) Hook the Spring Arm point (a) to the Spring Hanger point (e) of Slant Roller Arm Ass'y.
- (3) Remove the Stopper Washer and the remove the Slant Roller Arm Ass'y.
- (4) Remove the Spring Hook of Tension Regulator Ass'y from the Spring Hanger point © of Bracket.
- (5) Remove the Screw using the (+) Drive.
- (6) Remove the Stopper Washer and then remove the Tension Regulator Ass'y.
- (7) Remove the Slide Washer.





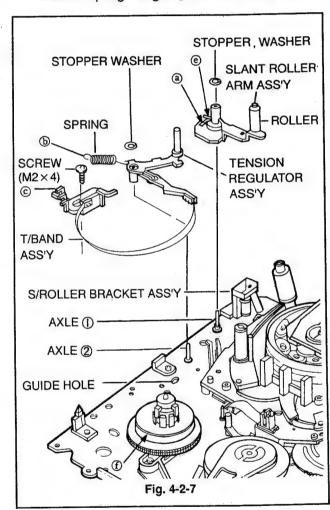
## NOTES:

- Be careful so the Band is not to be distarted or folded and the Felt is not to be dirted by an object material during disassembly the Tension Regulator Ass'y.
- Be careful so the Roller surface is not to be dirted by an object material during disassembling the Slant Roller Arm Ass'y.

# 7-2. Reassembly (Fig. 4-2-7, 4-2-8)

- (1) Assemble the Slide Washer to the Axle 2.
- (2) Apply the Oil 1/2 drop to the Axle 2.
- (3) Assemble the Felt side of T/Band Ass'y with the point ① part of S-Reel Ass'y correctly by sticking the Tension Regulator Ass'y on the Axle.
- (4) Assemble the Bracket Guider boss of T/Band Ass'y to accord with the Guide Hole on the upper part of Mechanism Chassis, and then set the Screw.

- (5) Assemble the Stopper Washer on the Axle 2.
- (6) Put up the Spring Hook at the middle point of Bracket Spring Hanger ©.
- (7) Apply the Oil 1/2 drop to the Axle (1).
- (8) Assemble the Slant Roller Arm Ass'y on the Axle
- (9) Set the Stopper Washer to the Axle (1).
- (10) Adjust the position of Tension Regulator FWD.
- (11) Put up the Spring Hook (b) at the middle Claw of Bracket Spring Hanger (c) on the T/Band Ass'y.



#### NOTES:

- During assembling the Tension Regulator Ass'y, be careful the Band is not to be distorted or folded and the Felt is not to be dirted by an object material.
- Use the about 1.2kgf cm Torque to fix the Bracket Set Screw.
- During assembling the Slant Roller Arm Ass'y, be careful the Roller surface is not to be dirted by an object material.

# 8. TENSION REGULATOR FWD POSI-TION AND BACK TENSION ADJUST-MENTS

## 8-1. FWD position Adjustment

(1) Set the Unit to the FWD Mode after Loading a Cassette Tape. (Loading make)

(2) Make Sure the gap between the edge of cap on the Tension Regulator Ass'y and the edge of Boss point (a) on the Slant Roller Arm Ass'y is 0.5~1mm.

If the gap is over the range, adjust the next step after ejecting the Cassette Tape.

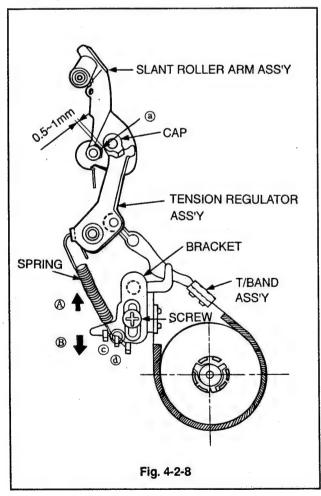
(3) Remove the Set Screw of the Bracket on the T/Band Ass'y.

(4) If the measuring gap is farther than the range, draw the Bracket up to the Direction of arrow (A), and if the gap is nearer than the range, thrust the Bracket to the direct on of arrow (A), and then set the Screw.

(5) Check the gap is in the range value by adjusting steps(1), (2) repeatedly.

### NOTES:

Use a Cassette Tape wound about half.



## 8-2. Back Tension Adjustment (Fig. 4-2-8)

(1) Load the Torque Cassette Tape in the Unit and set the Unit to Ope-Mode after step, adjustment. (Forward Play Mode).

(2) Check the Back Tension Torque of the Supply side is in 6.5±2(gf • cm).

(3) Otherwise, adjust the Spring hanger position of Bracket as follows:

(4) If the measurment value is more than the range, put the Spring Hook up to the Hanger ©, and if it is less than the range, put the Spring Hook up to the Hanger.

(5) Make sure the Back Tension is in the range value by adjusting steps(1), (2) repeatedly.

#### 8-3. Reel Torque Checking

(1) Load the Torque Cassette Tape in the Unit.

(2) Set the Unit to FWD Mode and check the Torque on the T Reel Table is in 12.5±4gf • cm.

(3) Set the Unit to REV Mode and Check the Torque on the S Reel Table is in 12.5±4gf • cm.

(4) Set the Unit REV Mode and Check the Torque on the T Reel Table is in 12.5 ± 4gf • cm.

(5) If each Torque Value is over the range, change the Reel table.

# 9. WORM GEAR ASS'Y MIDDLE GEAR, TRANS GEAR ASS'Y, LOADING MOTOR ASS'Y AND BRACKET ASS'Y

9-1. Disassembly (Fig. 4-2-9-1, 4-2-9-2)

(1) Remove the Screw for removed the Loading Motor Ass'y (Fig. 2-9-2). At this time, the Worm Gear Ass'y is disassembled simultaneously with the Loading Motor Ass'y (a) and Worm Gear Ass'y (b) in gear together. (Fig. 4-2-9-1)

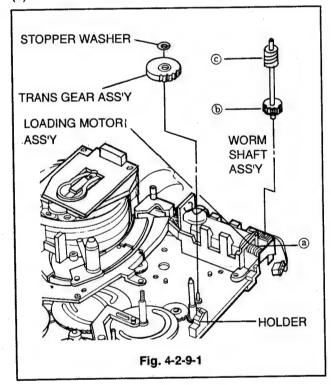
(2) Remove the Loading Motor Ass'y and Worm

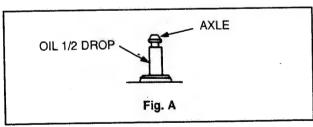
SHAFT Ass'y. (Fig. 4-2-9-1)

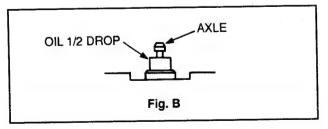
(3) Remove the Stopper Washer and remove the Trans Gear Ass'y.

(4) Remove the Stopper Washer and remove the Middle Gear.

(5) Release the Screw to remove the Bracket Ass'y.







9-2. Reassembly (Fig. 4-2-9-2)

(1) Assemble the Guide Bosses 2 points of Bracket Ass'y to accord with the Guide Holes "@" and "@" on the upper part of Mechanism Chassis, and then set the screw.

(2) Apply the Oil 1/2 drop on the Axle.

(3) Go in gear the Mode Gear with Middle Gear by sticking on the Axle.

(4) Set the stopper Washer to the Axle.

(5) Assemble the Guide Bosses 2 points on the Lower part of Loading Motor Ass'y to accord with the Guide Holes "©" and "@" on the upper part of Mechanism Chassis and then set the Screw.

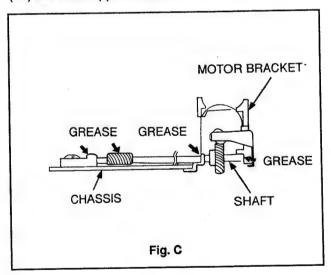
(6) After the Gear point ⑤ of Worm Gear Ass'y is to be toward below, stick it into the Gear ⑥ bottom of Loading Motor Ass'y, and fix the Shafe end tip is to be supported to the Loading Motor Bracket first tip, and then assemble the other side of Shaft by pushing from inside of Holder to outside.

(7) Apply the GREASE on the parts. (Fig. C)

(8) Apply the Oil 1/2 drop on the Axle.

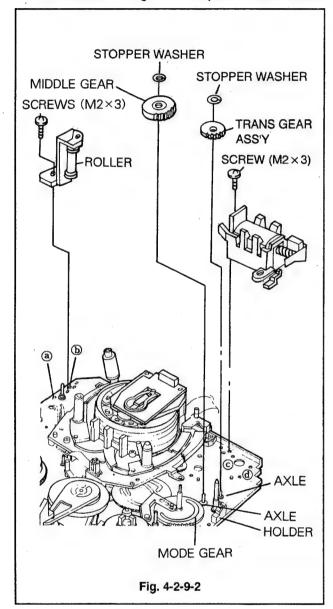
(9) Go in gear with the Middle Gear and Worm Gear Ass'y Gear © together by sticking the Trans Gear Ass'v on the Axle.

(10) Set the Stopper Washer on the Axle.



#### NOTES:

- Do not in gear the Gears by force during disassembly/reassembly of Gear, bited each other.
- During assembling the Bracket Ass'y, be careful the Roller surface is not to be dirted by an object material.
- Use the about 1.2kgf cm Torque to fix the Screw.



# 10. LOADING BASE ASS'Y, MODE GEAR ASS'Y AND EJECT LEVER ASS'Y

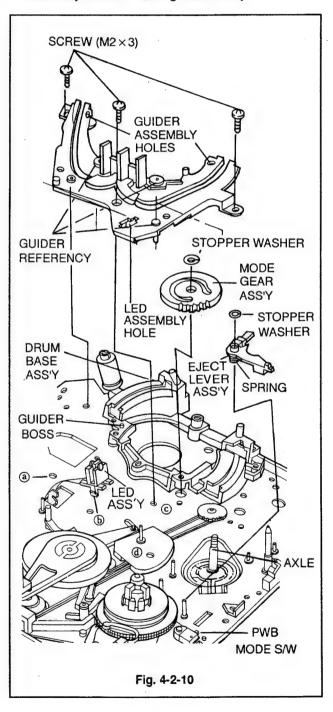
# 10-1. Disassembly (Fig. 4-2-10)

- (1) Remove the LED Ass'y from the Led assembly Hole of Loading Base Ass'y.
- (2) Remove 3 Screws and then remove the Loading Base Ass'y.

- (3) Release the Stopper Washer and remove the Mode Gear Ass'v.
- (4) Hook the Spring Arm point (a) of Eject Lever Ass'y by pushing to the front to the Spring Hanger of Eject Lever Ass'y.
- (5) Remove the Stopper Washer and then remove the Eject Lever Ass'y.

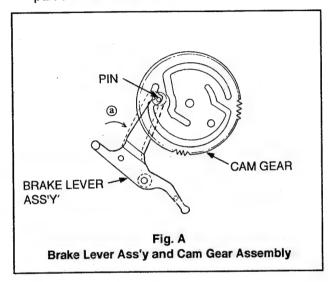
#### NOTES:

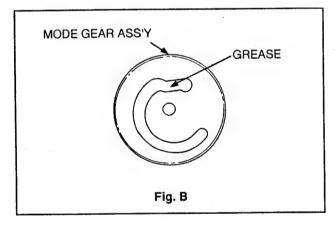
 Be careful the Led Ass'y Hook is not to danage during disassembly the LED Ass'y from the Led assembly Hole of Loading Base Ass'y.



10-2. Reassembly (Fig. 4-2-10)

- (1) Fix the Guide Basic 4 pins of Loading Basse Ass'y to the refuge holes "③ ", "⑤", "ⓒ" and "④" formed on the upper part of Mechanism Chassis. Stick the Pin into the Gear trace of outer Cam formed on the Cam Gear by pushing the Brake Lever Ass'y slightly in the direction of arrow, and then stick the Guide Basic 4 Pins of Loading Base Ass'y fast to Guide 2 Holes by pressing from above to below. (Fig. A)
- (2) Set 3 Screws to "T1", "T2" and "T3" on the upper part of Mechanism Chassis.

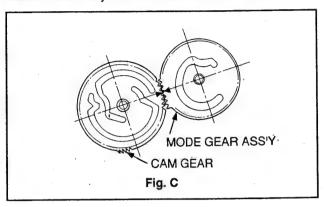


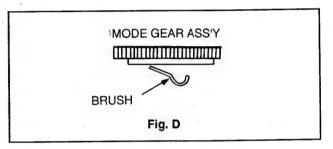


- (3) Assemble the Eject Lever Ass'y on the Axle, and Set the Stopper Washer on it.
- (4) Wipe the surface of PWB Mode S/W with the cotton stick with the cleanser.
- (5) After the cleanser is dried completely, Apply the Grease to the point of contact evenly and thinly.
- (6) Apply the Grease on the Mode Gear Ass'y Cam formative parts.
- (7) Go in gear the Cam Gear with the Mode Gear Ass'y by sticking on the Axle. (Fig. C)

(Assembly Method)

Go in gear with together so the intaglioed arrow edge to accord on the line connected to the middle of Mode Gear Ass'y and the middle of Cam Gear.





(8) Set the Stopper Washer on the Axle.

(9) Push the Spring Arm point @ of Eject Lever Ass'y from the Spring hanger to below to be supported to the sidewall of CST S/W.

(10) Apply the Grease on the deviant lines of Loading Base Ass'y (Fig. 4-2-11).

(11) Stick the Led Ass'y into the Led Ass'y Hold of Loading Bass Ass'y.

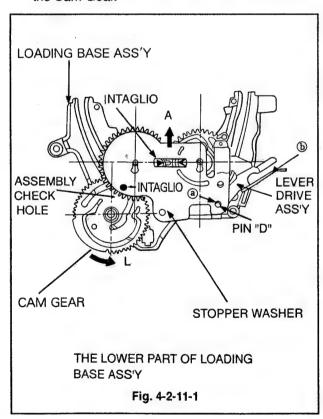
### NOTES:

- Use the about 1.2kgf mm Torque to set 3 Screws.
- Do not force unreasonably, during disassembly and reassembly it may cause the transformation of Gear.
- Be careful so the Roller(S), (T) is not to be dirted by an object material.
- Take the Led Ass'y Hook and Loading Base Ass'y not to be transformed during assembling the Led Ass'y to the Led Ass'y Hole of Loading Base Ass'y.
- Be careful so the Brush on the Lower part is not to be transformed during handling the Mode Gear Ass'y (Fig. D).
- Do not gear in the Mode Gear Ass'y and Cam Gear by force during assembling, the Gear parts may get damaged.
- Take the Spring Arm (a) of Eject Lever Ass'y not to be transformed by force.

# 11. GEAR LOADING ASS'Y(S), (T), SLANT BASE ASS'Y(S), (T), CAM GEAR AND LEVER DRIVE ASS'Y

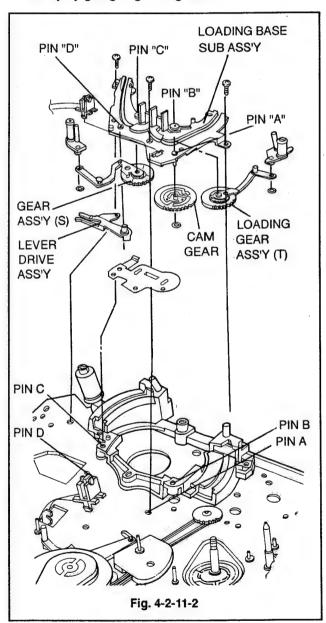
11-1. Disassembly (Fig. 4-2-11-1, 4-2-11-2)

- (1) Turn the Loading Base Ass'y over, and remove the part ⓐ of stopper Plate from Pin "D" by raising and then remove the Stopper Plate by Pushing and raising to "A" direction (to above). (Fig. 4-2-11-1)
- (2) Remove the Lever Drive Ass'y from Pin "D" on the Loading Base Sub Ass'y.
- (3) Turn the Cam Gear to the "L"direction to stop the rotating. At this time the Slant Base Ass'y(S), (T) also move forward because the Loading Gear Ass'y(S), (T) is rotated (Fig. 4-2-11-3).
- (4) Remove the Loading Gear Ass'y(S) and Slant Base Ass'y(S) from the pin "C" on the Loading Base Sub Ass'v.
- (5) Remove the Stopper Washer of Loading Gear Ass'y and disassemble the Slant Base Ass'y(S).
- (6) Remove the Loading Gear Ass'y(T) and and Slant Base Ass'y(T) from the pin "B" on the Loading Base Sub Ass'y.
- (7) Remove the Stopper Washer of Loading Gear Ass'y(T) and disassemble the Slant Base Ass'y (T).
- (8) Remove the Stopper Washer from the pin "A" on the Loading Base Sub Ass'y and disassemble the Cam Gear.



11-2. Reassembly (Fig. 4-2-11-1, 4-2-11-2)

- (1) Apply the Oil 1/2 drop on the pin "A" of Loading Base Sub Ass'y. (Fig. 4-2-11-2)
- (2) Apply the Grease on the deviant lines of Cam Gear. (Fig. A)
- (3) Stick the Cam Gear in the pin "A" of Loading Base Sub Ass'y adn then set the Stopper Washer.
- (4) Stick the Slant Base Ass'y(T) and the set theStopper Washer.
- (5) Assemble the Cam Gear and Loading Gear Ass'y by going in gear together.



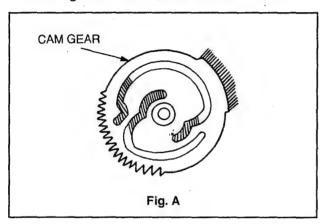
(Assembly Method)

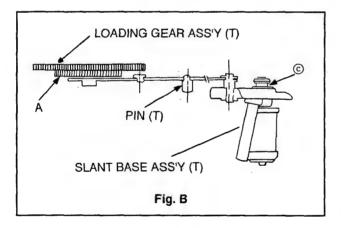
Apply the Oil 1/2 drop to the Pin "B". Accord the "assembly basic Hole", on the part unformed the teeth pattern by turning the Cam Gear, with the Guider Hole "E" forned on the Loading Base Sub Ass'y.

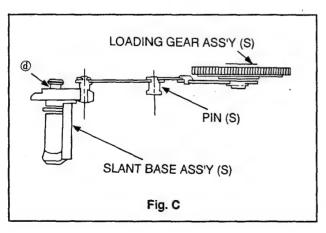
Fix the Loading Gear Ass'y(T) in the Pin "B". Accord the Guider Hole "F" in the center of cam Gear and

Loading Cam Gear.

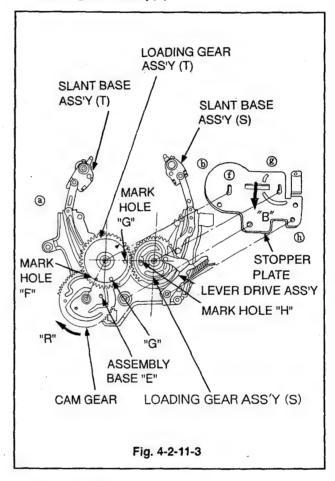
In the state, fix the little Gear(A) Teeth in the Cam Gear by pushing the Loading Gear Ass'y(T) from the Upside to the lower. (Fig. 2-11-3). And Check the Guider Hole "G" of Loading Gear Ass'y(T) is placed in the straight line between Pin "B" and Pin "C".







- (6) Stick the Pin "T" head of Loading Gear Ass'v(T) in the Guide Way "A" of Loading Base Sub Ass'y. (Fig. 4-2-11-3)
- (7) Stick the Slant Base Ass'v(S) in the Lever Hold of Loading Gear Ass'y(S) and Set the Stopper Washer. (Fig. 4-2-11-2)
- (8) Apply the Oil 1/2 drop in the Pin "C" of Loading Base Sub Ass'y. (Fig. 4-2-11-2). Go in gear the teeth of Loading Gear Ass'y(S) with the teeth of Loading Gear Ass'v(T).



(Assembly Method)

Fix the Loading Gear Ass'y(S) in the Pin "C" and check the Guide Hole "H" is placed in the straight line between Pin "B" and Pin "C", After Assembly, Pin "B", Guider Hole "G", Guider Hole "H" and Pin "C" are placed on the straight line. (Fig. 4-2-11-3)

(9) Stick the Pin(S) Head of Loading Gear Ass'y(S) in the Guide Way "B" of Loading Base Sub

Ass'y. (Fig. 4-2-11-3)

(10) Rotate the Cam Gear to the direction of "R"
Stick the part "C" of Slant Base Ass'y(T) and
part "D" of Slant Base Ass'y(S) in the Guide
Way "A" and "B" of Loading Base Sub Ass'y
and then rotate the Cam Gear to the direction of
"R" until the rotaty is stopped.

(11) Apply the Grease on the deviant Lines of Cam

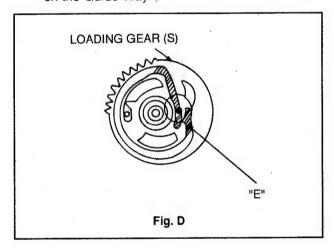
trace formed on the Gear. (Fig. D)

(12) Apply the Oil 1/2 drop in the Pin "D" of Loading Base Sub Ass'y. (Fig. 4-2-11-3)

- (13) During sticking the Lever Drive Ass'y in the Pin "D" of Loading Base Sub Ass'y, stick the Pin "L" of Lever Drive Ass'y in the inside of Cam trace on the Loading Gear(S). (Fig. D, part "E")
- (14) Apply the Grease on the deviant Lines of Lever Drive Ass'y. (Fig. 4-2-11-3)

(15) Set the Stopper Plate

(16) Turn the Loading Base Ass'y over, and apply the Grease to the deviant lines of the upper part on the Guide Way.



(CHECKING) (Fig. 4-2-11-1)

- Check the Vertical hem of Loading Gear Ass'y(T) negative mark "D" and Loading Gear Ass'y(S) positive mark " " are accorded with each other.
- Check the stopper Plate Guider Hole "I" and Loading Gear Ass'y(T) negative mark "G" are accorded with each other.
- During the checking, if the wrong result is found, adjust the steps above again.

#### NOTES:

- During the Gears assembly, be careful of the Teeth of Gears get demaged by force.
- Do not force them umreasonably to disassembly and assembly.
- During the Slant and Base Ass'y(C), (T) disassembly and assembly, be careful of the obstruction adhere to the Roller and Post.

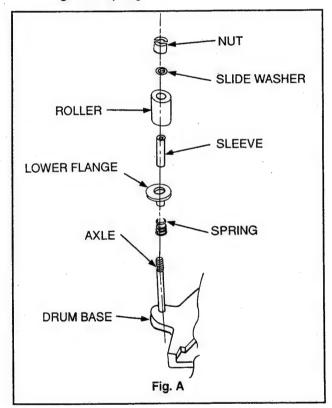
# 12. DRUM BASE ASS'Y AND INERTIA ROLLER ASS'Y

12-1. Disassembly (Fig. 4-2-12) (Fig. A)

(1) Remove 3 Screws and ever remove Drum Base Ass'v.

(2) Remove the Nut.

(3) Remove the Slide Washer, Roller, Sleeve, Lower Flange and Spring.

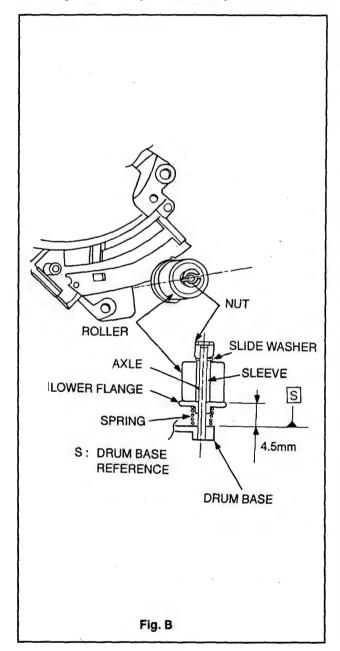


# 12-2. Reassembly (Fig. 4-2-12) (Fig. A)

- (1) Install the Spring, Lower Flange, Sleeve, Roller and Slide Washer on the Axle of Drum Base.
- (2) Fix the Axle by rotating the Nut four or six times.
- (3) Stick the Guide Bosses 2 point of Drum Base Ass'y in the Boss refuge Holes on the upper part of the Mechanism Chassis from above to below.
- (4) Set 3 Screws to fix the Drum Base Ass'y.

#### NOTES

- · Use the about 2kgf · cm Torque to set Screw.
- Be careful so the Roller surface is not to be dirted during disassembly and assembly.

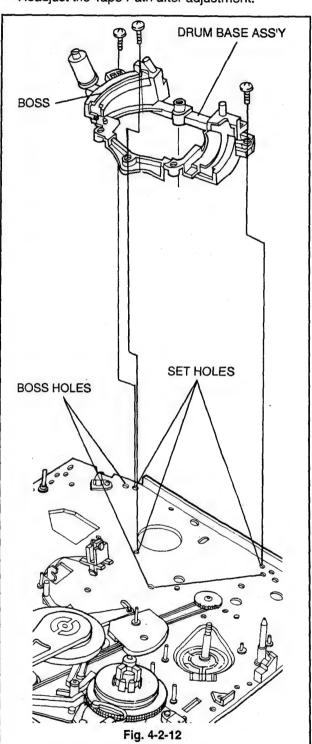


# 12-3. Roller Height Adjustment (Fig. B)

(1) Adjust the height of Drum Base Lower Side and Lower Frange upper Side by rotating the Nut.

### NOTE:

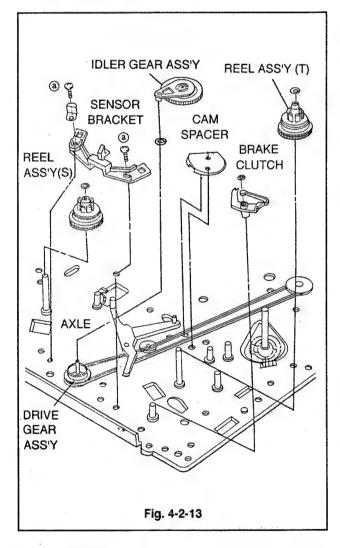
· Readjust the Tape Path after adjustment.



# 13. BRAKE CLUTCH, REEL ASS'Y(S), REEL ASS'Y(T), SENSOR BRACKET, **IDLER GEAR ASS'Y AND CAM SPACER**

# 13-1. Disassembly (Fig. 4-2-13)

- (1) Remove the Stopper Washer and remove the Brake Clutch.
- (2) Remove the Stopper Washer and remove the Slide Washer after disassembly the Reel Ass'y
- (3) Remove the Reel Ass'y(S) and then remove the Slide Washer.
- (4) Remove the Screw (a) and Sensor Bracket.
- (5) Disassemble the Idler Gear Ass'y and remove Slide Washer.
- (6) Remove the Cam spacer.



13-2. Reassembly (Fig. 4-2-13)

(1) Stick the Guide Bosses 2 point of Cam Spacer in the Guider Bosses 2 point on the upper part of the Mechanism Chassis in the bottom of the Chassis by pushing from above to helow.

(2) Stick the Slide Washer on the Axle and then apply the Oil 1/2 drop and assemble the Idler Gear Ass'y on the Axle. (Flg. A). During assembling the Idler Gear Ass'y, go in gear the idler Gear teeth with Gear teeth on the

upper part of Drive Gear Ass'y. (3) Stick the Guide Boss 2 point of Sensor Bracket in the Guide Holes 2 point on the upper part of

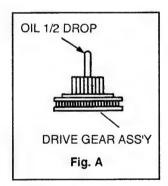
Mechanism Chassis and set right part with Screw. (4) Push the Spring Arm (a) of Brake Reel Ass'y to

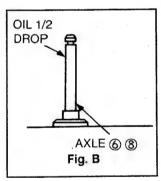
be supported to the side wall of Sensor Bracket. (5) Stick the Slide Washer on the Axle and apply the Oil 1/2 drop to the Axle and assemble the Reel

Ass'y (S), (Fig. B)

(6) Stick the Slide Washer on the Axle and apply the Oil 1/2 drop to the Axle and assemble the Reel Ass'y(T). (Fig. B)

- ⇒ Assemble the Reel Ass'y(T) carefully and go in gear the Brake Reel Ass'y teeth with Reel Ass'y (T) teeth by rotating the Lever Brake Ass'y to the direction of "R".
- (7) Set the Stopper Washer on the Axle.
- (8) Set the Brake Clutch and then the Stopper Washer on the Axle.
- ⇒ Assemble the bow of Brake Clutch to be Supported to the Side wall of Reel Ass'y(T).





#### NOTES:

- Be careful so the bow of Brake Clutch is not to be transformed.
- Do not enguage with the Gears by forces, because the Idler Gear is easy to get demaged during the Idler Gear Ass'y.

Be careful so the teeth is not to get demaged during assembling the Brake Reel Ass'y and Reel Ass'y(T).

- Do not force the Spring Arm unreafonably during the disassembly and reassembly of Spring Arm on the Brake Reel Ass'y, it may cause the transformation of Spring.
- Use the about 1.2kgf cm Torque to set Screw.

# 14. BRAKE REEL ASS'Y, LEVER BRAKE ASS'Y, TIMING BELT, IDLER BELT, DRIVE GEAR ASS'Y, CONVERSION GEAR ASS'Y

14-1. Disassembly (Fig. 4-2-14)

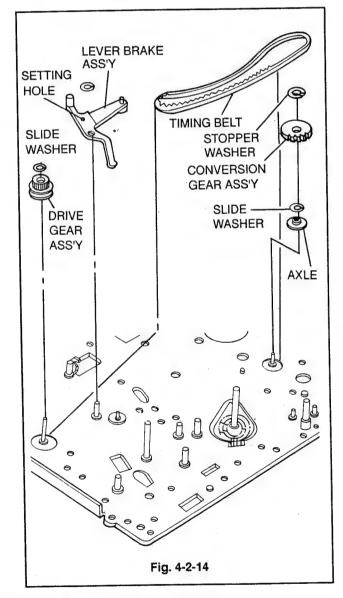
(1) Remove the Stopper Washer and remove the Brake Reel Ass'y.

(2) Remove the Timing Belt. Release the Timing Belt stuck in the Idler Belt and then remove the Timing Belt from the Drive Gear Ass'y.

(3) Loosen the Stopper Washer, and remove the Idler Belt and Slide Washer.

(4) Remove the Drive Gear Ass'y and Slide Washer on the Axle.

(5) Loosen the Stopper Washer, and remove the Conversion Gear Ass'y and Slide Washer.



14-2. Reaseembly (Fig. 4-2-14)

(1) Stick the slide washer on the Axle and apply the oil 1/2 drop on the Axle. (Fig A)

(2) Assemble the conversion Gear Ass'y on the Axle and set the stop washer.

(3) Assemble the slide wahser on the Axle and apply the oil 1/2 drop on the Axle. (Fig B)

(4) Assemble the Grive Gear Ass'y on the Axle.

(5) Stick the Idler Belt on the Axle and apply the oil 1/2 drop on the Axle.

(6) Assemble the Idler Belt on the Axle and set the stopper wahser.

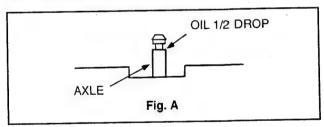
(7) Assemble the Timing Belt. Hook the Timing Belt on the lower Gear of Conversion Gear Ass'y and assemble the vertical port(no teeth part) on the lower teeth part of Drive Gear Ass'y by hooking on the vertical part of IdlerBelt. (Fig. 4-2-13) Apply the oil on the teeth of Timing Belt.

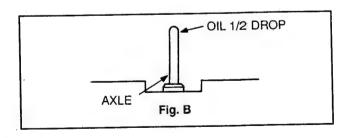
(8) Assemble the Lever Brake Ass'y on the Axle and set the stopper washer, and then fit the Guider Hole to the cognition hole by rotating the Lever Brake Ass'y.

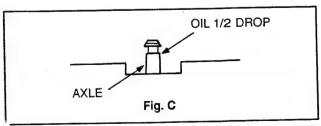
(9) Stick the Lever Brake, on the Axle and set the Stopper Washer, At this time, assemble so the part "B" on the Lever Brake Ass'y is to be inserted in the Mouth part "A" on the Brake Reel Ass'y. (Fig. 4-2-13)

#### NOTE:

Do not force to be transformed unreasonably during the Timing Belt disassembly/assemly.







## 15. DRUM ASS'Y DISASSEMBLY

#### 15-1. Disassembly

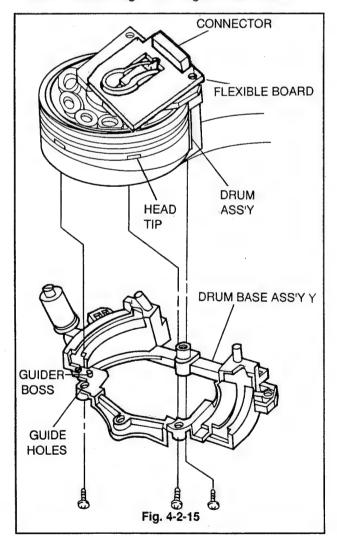
- (1) Set the Unit to the ULC Mode (Unloading mode).
- (2) Remove the Flexible Board and connector.
- (3) Loosen the 3 screws on the Lower part of Chassis and remove the Drum Ass'y from the Drum Base Ass'v.

### 15-2. Reassembly

- (1) Fit 2 Guider Bosses formed on the Drum Base Ass'y with the Guider refuge Holde on the Lower part of Drum Ass'y, and then set the Drum Ass'y with 3 screws through the Guide Hole of Drum Base Ass'y on the Lower Part of chassis.
- (2) Link the connector to the Flexible Board.

#### NOTES:

- During the Flexible Board and connector disassembly/assembly, be careful to the Line Cutting or transformation.
- · Do not touch the Head Tip.
- · Readjust the Tape path of ter assembly.
- Use the about 2kgf cm Torque to set screw.



### 16. DRUM DISASSEMBLY

#### 16-1. Disassembly

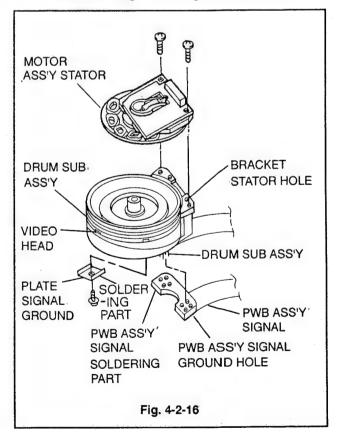
- (1) Loosen 2Screws on the upper part of Drum Ass'y and remove the Motor Ass'y stator.
- (2) Remove the lead from the soldering part on the Lower part of Drum Ass'y, and remove the Plate Signal by loosening 1 Screw.
- (3) Remove the lead from the PWB Ass'y signal soldering part on the Lower part of Drum Ass'y and remove PWB Ass'y signal.

#### 16-2. Reassembly

- (1) Assemble the Drum to fit the PWB Ass'y signal Hole and the Drum Sub Ass'y pin properly, and solder on the soldering part of PWB Ass'y signal.
- (2) Assemble the Plate Signal Ground on the Drum Sub Ass'y with 1 screw, an then Solder on the soldery part of Plate signal Ground.
- (3) Assemble the Motor Ass'y Stator in the Bracket Stator Hole with 2 screws on the upper part of Drum Sub Ass'y.

#### NOTES:

- During the parts assembly, do not scratch on the surface of Drum.
- Be careful so the Video Head is not to be damaged.
- Solder carefully after assembling the PWB Ass'y Signal.
- Use the about 2kgf cm Torgue to set screw.



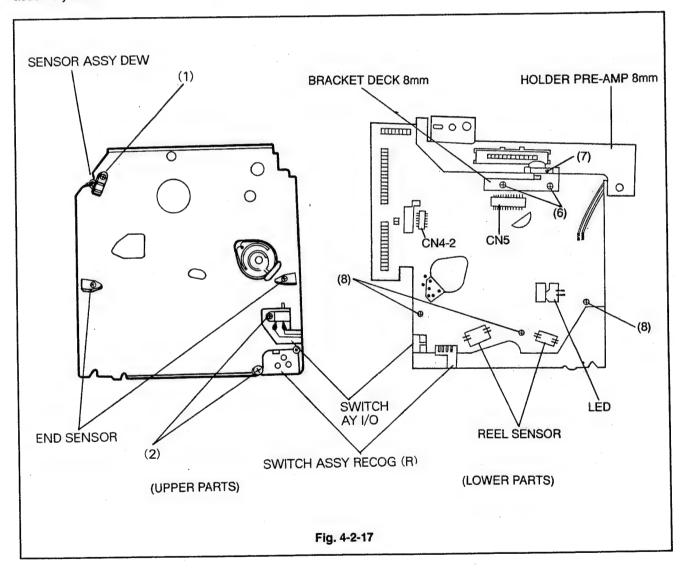
# 17. PCB ASS'Y DECK

17-1. Disasembly

- (1) Remove 1 screw (4) and 1 screws (5) on the upper parts of chassis.
- (2) Remove the Holder PRE-AMP 8 mm, BRACKET DECK 8mm after release, screw (6) and screw (7).
- (3) Remove 3 screw (8) and remove the solder of Mode switch, LED.
- (4) Remove the PCB ASS'Y DECK JUNTION.

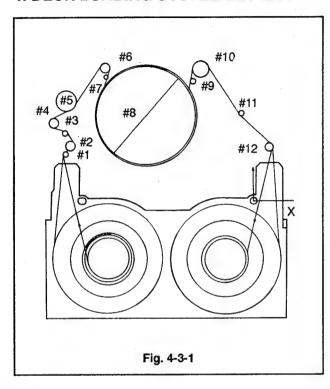
17-2. Reassembly

Perform the reassembly to the reverse order of assembly above.



# **DECK MECHANISM ADJUSTMENT**

# 1. DECK LOADING SYSTEM LAY-OUT



#1: TENSION POST (@2)

#2: GUIDE ROLLER (N) ( 4)

#3: SLANT POST (@2)

#4: GUIDE ROLLER ( 4)

#5: INERTIA ROLLER (=P1) (₱8)

#6: GUIDE ROLLER (S) (=P2) ( • 4)

#7: SLANT POST (S) (\$\varphi\$2)

#8: DRUM ( 40)

#9: SLANT POST (T) (@2)

#10 : GUIDE ROLLER (T) (=P3) (\$\varphi\$6)

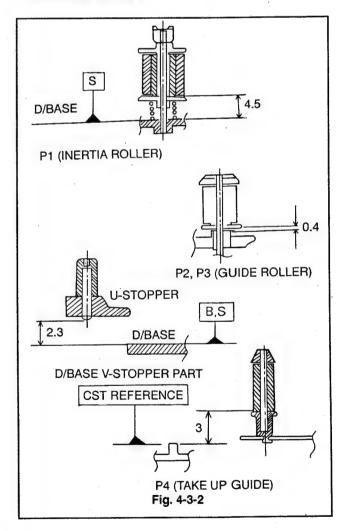
#11: CAPSTAN (@1.995)

#12 : TAKE UP GUIDE (=P4) ( @ 3)

### 2. PREPARATIONS

- 1 Cleaning water.
- 2 Chanois cloth.
- (3) Cotton stick
- 4 Dental mirror.
- (5) Torgue CST Tape, Alignment Tape and PLAY/RECORDING Tape.
- (6) Hexagonal Wrench(0.89mm) or L-Wrench.
- ⑦ Small(-) Driver⇒P1, P4 Adjustment.
- 8 Loading adjustment stick P2, P3, P4 adjustment.
- (9) Circuit jig for Deck adjustment.

# 3. LOADING POST FIRST HEIGHT ADJUSTMENT



# 4. TENTION ARM POSITION AND BACK TENTION ADJUSTMENT

4-1. Tension Arm position Adjustment

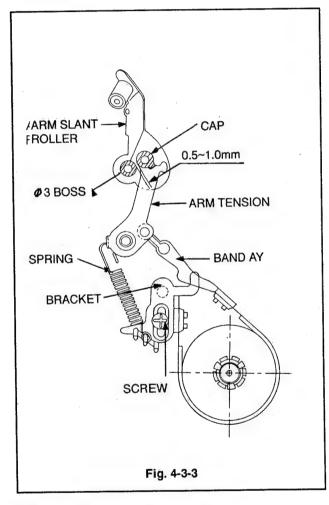
(1) Set the Deck mechanism to the Ope-Mode in No Tape state ⇒using the Circuit Fixture.

(2) Check the gab between ₱3 Boss of Arm Slant Roller and Cap of Arm Tension is 0.5~1.0 mm. If the gab is over the range, adjust as follows.

(3) Remove the screw on the Bracket fixing the

Band Ass'y.

(4) Set the Bracket to the desired position by pushing to the direction of A or B and then set the screw.



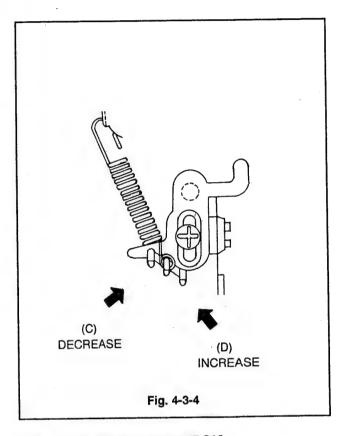
# 4-2. Back Tension Adjustment

(1) After step 4-1 Adjustment, insert the Torgue CST Tape in the Unit and set to the Ope-Mode.

(2) Check the Back Tension Torgue of Supply side is in  $6.5\pm2$  (gf-cm).

(3) If the measuring value is more than the range, hook the spring of Bracket to (c), and if the value is less than hook to (D).

(4) Check the Back Tension is in the range by performing the Step 1) and 2) repeatedly.



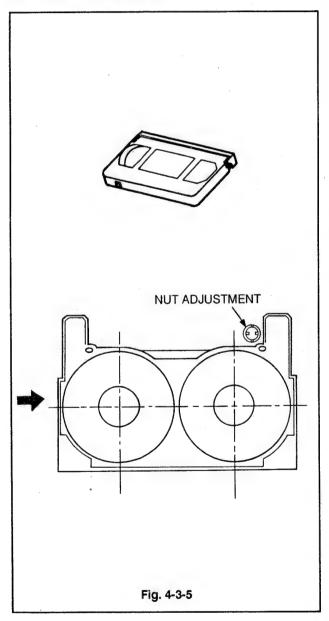
# 1-5. REEL TORQUE CHECK

Inset the Torque CST Tape in the unit and check the spec as follows;

MODE	UNIT	SPEC	REMARKS
OPC CUE	ar om	12.5±4	At T/up Reel
REVERSE	gr·cm	35±6	At Supply Reel
REVIEW		12.5±4	At T/up Reel

# 6. TAPE PATH ADJUSTMENT

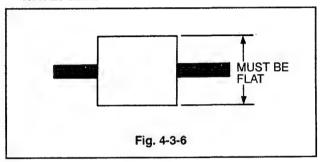
The 8mm Video can control the Tape speed instantaneously using the pilot signal, and adjusst very correctly using the ATF(Automatic Track Finding) method, so the adjustment by Tracking control knob is not need. But in case of ATF method, the Tape Path adjustment is difficult. That is, the perfect adjustment is difficult through the ATF method, because it compensates the Head Tracking Error to extent. Therefore, select the Track shift Mode for is possible and the Tracking control is easy. NOTE for P4 Guide (#12).



### 6-1. Adjustment preparation

- (1) Wipe the Tape path. (Tape Guides, Drum, Capstan Shaft, Pinch Rollor)
- (2) Set the oiscilloscope for the Waveform Output.
- (3) Play Back the alignment Tape for Tracking control.
- (4) Chck the RF Waveform of Oscilloscope in the Entrance/Exit is flat Otherwise, adjust as follows;

#### WAVEFORM



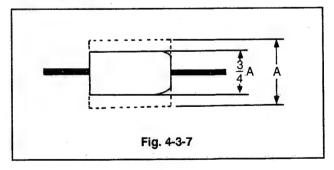
# 6-2. Tracking Control

- (1) Playback the Aligment Tape for Tacking contrl.
- (2) Using the Running Control stick, rotate the P2-Guide so the waveform of entrance side is to be flatted.
- (3) Using the Running control stick, ortate the P3-Guide so the waveform of exit side is to be flatted.

# 6-3. Tracking Fine Adjustment

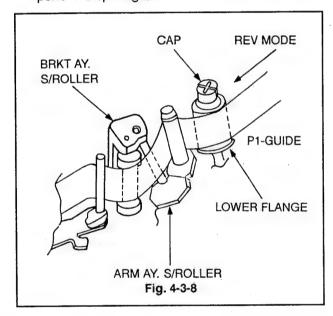
- (1) Playback the Alignment Tape for Tracking control and set the unit to the Track shift mode.
- (2) Check the waveform is flat. Otherwise, roate the P2-Guide and P3-Guide so it is to be flatted.
- (3) Set the Lock screw of P2 side using the Hexaponal Wrench 4 L-Wrench, etc. At this time, check the entrance of waveform is not change.
- (4) Set the Lock Screw in the P3 side using the hexaponal Wrench 4 L-Wrench, etc. At this time, check the exit side of waveform is not changed.

#### \* WAVEFORM



## 6-4. P1-Guide (Inertia Roller) Adjustment

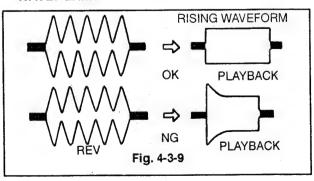
- (1) Playback the P6-120MP Tape, and then set the unit to REV Mode.
- (2) Check the distortion is occurred in the Lower Flange of P1-Guide. If it appears, bring the Cap of P1-Guide a lower by rotating it to the clockwise with the driver until the tape is flatted.
- (3) Playback the Alignment tape for the Tracking control.
- (4) Perform the Tracking Control and Tracking Fine Control.
- (5) In the Track Shift state, playback the tape again after CUE/REV. At this time, check the RF Waveform is stabled horizontality in 2secs.
- (6) If not, rotate the cap of P1-Guide to an angle of 90 degrees of counter-clockwise and then perform step 5 again.



### NOTES:

- (1) Repeat Step(5),(6) until the normal waveform ranged is become. At this time, if the RF waveform is changed, perform the Track Fine adjustment of Entrance side and then repeat step(5) again.
- ② Druing FF/REW Mode, check the Curl or Tape Jam are occurred on the #4 Guide Roller Upper/Lower Flange of Bracket AY, S/Roller.

#### WAVEFORM

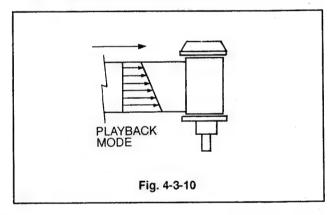


# 6-5. P4-Guide(T/Up Guide) Adjustment

- (1) Playback the Alignment Tape for Tracking control and set the unit to the REV-Mode.
- (2) Check the Tape transformation is not occurred between the P3-Guide and Capstan Shaft. If it occurrs, rotate the P4-Guide Height Adjustment Cap until the Tape transformation is ridded.
- (3) Set the unit to the playback Mode, and then check the Tape transformation is not occurred between the Capstan shaft and P4-Guide(within 0.5mm) If the Tape transformation is more than 0.4mm, adjust the P4-Guide Height unil it is become within 0.5mm.

### NOTES:

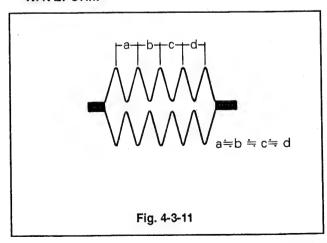
- When the unit is set to the REV\*Mode. it is good adjustment that the transformation between P3-Guide and Capstan Shaft is appeard within 0.
- The Upper/Lower Tape Tension distribution in the P2,P3-Guide must be as follows;



#### 6-6. CUE/REV Waveform check

- (1) Playback the Alignment Tape for Tracking control and then set the unit to the REV Mode. Check the top of each waveform is sustained with the regular width of 5 or more than 5. Otherwise, perform Item 6-3.
- (2) Set the unit to the CUE-Mode. Check otherwise, perform Item 6-3.

#### \* WAVEFORM

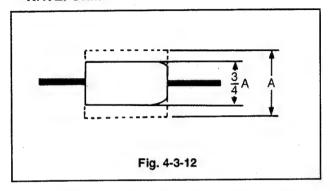


# 6-7. Check after Adjustment

(1) Tracking Check

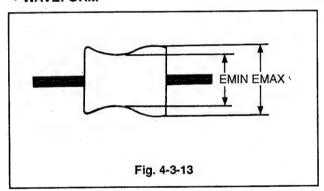
 Check the width of RF Wavefrom is reduced to about 3/4 when do the unit set to the Track Shift position.

#### WAVEFORM



 Check the Minimum width (Emin) is the 65% of Maximum Width (Emax) or more than 65%.

#### \* WAVEFORM

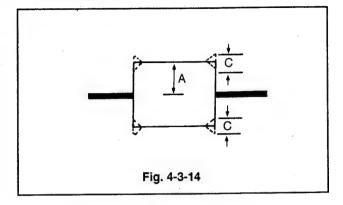


3) Check the Waveform is not changed greatly.

(2) Rising Check

 Playback an Alignment Tape for Tracking Control.

#### WAVEFORM



2) Release the Tracking Shift State.

3) Unload the tape and load again.

4) Set the Unit to the PLAY mode and check the RF Waveform is stabilized within 2 Secs, horizontally, Also, check the tape is distorted around the Pinch Roller.

5) Set the Unit to the CUE/REV and FF/REW modes and then playing back again, check the RF Waveform is stabilized within 2 Secs, horizontally, Also, check the tape is distorted around the Pinch Roller.

6) Check the process from 3) to 5) repeatedly.

(3) TAPE PATH Adjustment

1) Playback the P<sub>6</sub>-120MP (NTSC) or P<sub>5</sub>-90MP (PAL) Cassette Tape.

Check the Tape gets on or the Tape folded state is within 0.3mm in the following flanges;

① Upper and Lower Flange of #2 Guide.

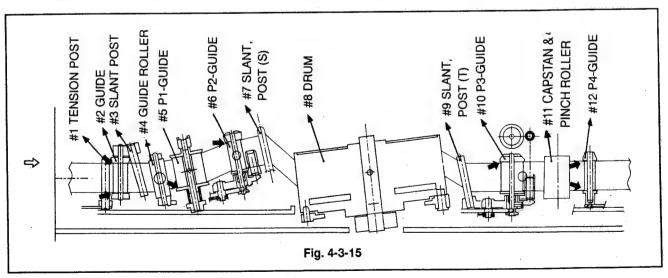
2 Lower Flange of #5 P1-Guide

(3) Upper Flange of #6 P2-Guide

4 Upper Flange of #10 P3-Guide

(5) Upper and Lower Flange of #12 P4-Guide

2) During Playback Mode, press the FF key to set CUE Mode or press the REW key to set REV Mode, and at this time, check the Tape gets on or the Tape folded state is within 0. 3mm in the following flages.



# **SECTION 5 REPLACEMENT PARTS LIST.**

# 1. Mechanical Section

# 1-1. VHS Mechanism

RUN DATE: 95.09.26
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
				ASSEMBLY PART	SECTION	
		A00	412-127C	DECK	ASSY D-17'S (7HD SI VCR PAL)	
	OR	A00	412C127C	DECK	ASSY D-17'S (7HD SI VCR PAL)	
	OR	A00	412G127C	DECK	ASSY D-17'S (7HD SI VCR PAL)	
,	OR	A00	412H127C	DECK	ASSY D-17'S (7HD SI VCR PAL)	1
	OR	A00	412W127C	DECK	ASSY D-17'S (7HD SI VCR PAL)	
- (		A01	413-184D	DRUM	ASSY (D17-7CH PAL) DD2	
		A02	386-296C	ARM	ASSY CL	
	OR	A03	311-005G	CHASSIS ASSY'	D17	NSP
1	- 1	A03	311-005M	CHASSIS ASSY'	D17	NSP
		A04	456-048A	REEL	ASSY SUPPLY POM 7G	
- ]	ļ	A05	456-045A	REEL	ASSY T/UP POM 7G	
	١	A06	321-397D	BRACKET	ASSY F/R	}
	- (	A07	225-228A	BASE	ASSY A/C	
	OR	A08	225-248A	BASE	ASSY,P2	
1		A08	225-248B	BASE	ASSY P2 (W-W)	
	OR	A09	225-249A	BASE	ASSY,P3	
-		A09	225-249B	BASE	ASSY P3 (W-W)	1
- ]		A10	414-104A	MOTOR	ASSY LOAD	
-		A11	333-209E	LEVER	ASSY PINCH	
		A20	321-401A	BRACKET	ASSY BOTTOM	1
- 1	- 1	A21	333-208A	LEVER	ASSY RAT	1.
1	1	A22	338-078A	BRAKE	ASSY CAP	
		A23	386-218A	ARM	ASSY LOAD(R)	
		A24	386-219A	ARM	ASSY LOAD(L)	İ
-		A25	511-997D	PWB ASSY!	D-17,VCR	
	OR	A30	219-017F	HOUSING	ASSY (D17)	· ·
		A30	219-017L	HOUSING	ASSY (D17)	
-		A32	435-257B	GEAR	ASSY DRIVE (HOOK ADDED)	-
1		A33	321-406A	BRACKET	ASSY CARRIER	}
		A34	321-441A	BRACKET	ASSY SIDE	
		A35	515-106B	PWB ASSYI	SENSOR	
				PARTS SEC	TION	
	T	001	413-182D	DRUM	ASSY UPPER (D-17 7CH PAL)	
		002	413-183A	DRUM	ASSY LOWER (7CH)	
-		005	225-231B	BASE	ASSY D-BRUSH	
J	OR	006	225-220A	BASE	DRUM	NSP
	OR	006	225-220C	BASE	DRUM (Y-H)	NSP
		006	225-296A	BASE	ASSY DRUM (HI-FI)	NSP
- 1		007	386-297A	ARM	SUB ASSY CU	Nor
- 1		008	442-460B	SPRING	CU	,
	1	010	386-295B	ARM	CL	
		012	384-071A	GUIDE	17	
١		013	523-082B	HEAD	FE,HVFHF0010AK	{
١	OR	013	523-824A	HEAD	F.E MH-131G (D-17)	
		014	378-017A	SLEEVE	P1	}
- 1	Ī	015	434-178A	ROLLER	P1	
- [	OR	015	434-178B	ROLLER	P1	
			.01.700			

			I			Service Part
S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		016	389-003B	ADJUST	P(4)	
		017	434-244A	ROLLER	ASSY INERTIA	NSP
		018	386-205A	ARM	ASSY TENSION	
		019	442-331C	SPRING	TENSION	
		020	328-052B	BAND	ASSY TENSION	
		020	334-066A	STOPPER	P1	
					IDLE A POM 3G	
		027	435-243A	GEAR		
		028	435-244A	GEAR	IDLE B POM 3G	NOD
		029	456-040A	REEL	T17	NSP
		030	442-341A	SPRING	REEL	NSP
		031	276-068A	CAP	REEL	NSP
		032	456-039A	REEL	S17	NSP
		036	435-240A	GEAR	F/R POM 3G	
		037	442-336A	SPRING	UP/D	NSP
		038	435-239A	GEAR	UP/D POM 3G	NSP
		040	333-201B	LEVER	ASSY F/R	NSP
		044	442-338B	SPRING	SSB	NSP
			338-081A	BRAKE	S-SOFT	NSP
		045			i	NSP
		046	442-337A	SPRING	SMB	
		047	338-080A	BRAKE	ASSY S-MAIN	NSP
		048	442-339D	SPRING	TSB	NSP
		049	338-083A	BRAKE	ASSY T-SOFT	NSP
		050	321-396A	BRACKET	SUB ASSY F/R	NSP
		054	389-013A	ADJUST	X-ASSY	
		056	378-018A	SLEEVE	P4	
		060	442-343A	SPRING	T/UP	
		061	386-387B	ARM	ASSY T/UP	
		065	442-332A	SPRING	A/C	
İ		066	225-219A	BASE	SUB ASSY A/C	NSP
		068	523-089A	HEAD	SUB ASSY A/C	1101
					· · · · · · · · · · · · · · · · · · ·	
	ΙI	069	442-362A	SPRING	AZIMUTH	
		070	338-085A	BRAKE	ASSY T-MAIN	
		071	442-344A	SPRING	ТМВ	
		074	434-173A	ROLLER	ASSY GUIDE	
	OR	074	434-173C	ROLLER	ASSY GUIDE	
		075	353-054B	SCREW	MINIATURE	
		076	225-226B	BASE	SUB ASSY SLALT (L,W-W)	1
		077	225-225B	BASE	SUB ASSY SLALT (R,W-W)	
1		081	414-105A	MOTOR	SUB ASSY,L	
	1	082	437-009A	WORM	ASSY	
ŀ		083	321-410A	BRACKET	SUB ASSY L/M	
	l	084	433-023A	WHEEL	WORM	
ŀ					ASSY DEW	
	1	087	321-470A	BRACKET		
		088	435-448A	GEAR	PINCH (N)	NOD
		090	442-347A	SPRING	PINCH	NSP
1		091	386-210A	ARM	ASSY PINCH	NSP
l		092	442-346A	SPRING	STOPPER	NSP
		093	334-050C	STOPPER	PINCH	NSP
	OR	094	434-181A	ROLLER	ASSY PINCH	0 . 0
ı		094	434-181B	ROLLER	PINCH D14 X L18	
		095	276-089B	CAP	PINCH	NSP
		096	333-203A	LEVER	PINCH	NSP
			1	· ·	T-UP (N)	1101
		098	333-344A	LEVER	, ,	NSP
		100	321-463A	BRACKET	SUB ASSY B	
1	1	102	435-249A	GEAR	RAT1	NSP

SAL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
	103	442-356A	SPRING	F-LEVER	NSP
	104	356-208A	PIN .	F-LEVER	NSP
1	106	442-345A	SPRING	RAT	NSP
	107	333-202A	LEVER	RAT	NSP
	108	333-207A	LEVER	F17	NSP
1	110	374-005A	CAM	D17 POM 10G	
1	111	435-318A	GEAR	ASSY RACK F/L	
	112	435-291A	GEAR	ASSY RACK T	1 .
	113	435-246A	GEAR	PC POM 3G	ł
	114	414-121B	MOTOR	CAPSTAN, GVC017S	}
	115	452-047A	BELT	CENTER D71.9 X SQRT2.0	]
1	116	256-734A	PLATE	F17	
	117	442-342B	SPRING	FP	
	120	338-089A	BRAKE	SUB ASSY CAP	
1	121	442-333A	SPRING	CAPSTAN	ł
	122	432-038A	PULLEY	GEAR POM 3G	
	130	337-005A	CLUTCH		.
	131	340-001A	HOLDER	ASSY POM 7G FELT 20X1X1T 2EA	
1	132			LED (Q)	
	133	324-642A 513-494D	HOLDER PWB	R/S	NOB
-	134	556-133A		JUNCTION D-17 VCR	NSP
On			SWITCH	MODE	
OR OR		556-133B	SWITCH	MODE, ALPS	
OH		0DL451000AA	DIODE LED	IR SENSOR GL451 (LONG) SHARP	
1	135	0DL550000AB	DIODE LED	IR SENSOR EL-55L(LONG) KOC	
1	136	657-102K	SENSOR	SG-105(REEL) D-16 KOC	
1	137	556-131A	SWITCH	ESE-105SV1	
1	138	435-234A	GEAR	LOAD(R)	
1	139	442-330A	SPRING	LOADING	
	140	386-274A	ARM	SUB ASSY (R)	ł
	142	435-235A	GEAR	LOAD(L)	
	143	442-330B	SPRING	LOADING	ļ
	144	386-273A	ARM	SUB ASSY (L)	]
	146	333-218A	LEVER	ASSY A-TEN	
1	150	321-527A	BRACKET	ASSY C-GUIDE	
	201	256-934B	PLATE	TOP	
	204	465-026A	OPENER	DOOR	Į.
	205	321-517B	BRACKET	LEFT (D17)	ļ
	206	321-518A	BRACKET	RIGHT (D17)	
1	207	435-278A	GEAR	RACK N/D	
	208	256-910A	PLATE	GND TOP	
	210	321-440A	BRACKET	SIDE	
	213	442-351A	SPRING	oc ·	NSP
	214	465-028A	OPENER	CST	NSP
	215	442-357A	SPRING	RID	NSP
	216	465-027A	OPENER	RID	NSP
	217	324-647A	HOLDER	R	NSP
	218	321-407A	BRACKET	SUPPORT	NSP
	219	321-405A	BRACKET	CARRIER	NSP
	220	324-646A	HOLDER	L	NSP
	221	333-210A	LEVER	DT	NSP
	222	442-358B	SPRING	DT	NSP
	225	384-074A	GUIDE	CST	INOF
	226	442-352A	SPRING		NCD
	227	442-352A 435-254A	GEAR		NSP
	228			L	NSP
	220	442-350A	SPRING	S/W	

RUN DATE: 95.09.26
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		229	333-204A	LEVER	S/W	NSP
- 1		230	423-368A	SHAFT	D	NSP
		231	442-353A	SPRING	R	NSP
		232	435-255A	GEAR	R	NSP
		233	435-256B	GEAR	C (HOOK ADDED)	NSP
- 1		234	442-359C	SPRING	CUSHION (D17F/L)	NSP
- 1		235	442-354A	SPRING	CC	NSP
		236	276-086A	CAP	DRIVE	NSP
				SCREW		
T		400	1MDC0302418	PAN HEAD MACHINE SCREW P/WASH+	D 3.0 L 8.0 MSWR3/FZY	
		401	1MPK0261418	PAN HEAD MACHINE SCREW +,-	D 2.6 L 4.0 MSWR3/FZY	
		402	353-021D	SCREW	SPECIAL	
		404	353-048D	SCREW	CONE POINT 3X8	l.
		408	1MBC0302418	BINDING HEAD MACHINE SCREW +	D 3.0 L 8.0 MSWR3/FZY	
		411	353-046B	SCREW	SPECIAL (3X8 FZMY)	
ı		412	1MBC0302818	BINDING HEAD MACHINE SCREW +	D3.0 L12 MSWR3/FZY	
		421	1MPC0302618	PAN HEAD MACHINE SCREW +!	D3.0 L10.0,MSWR3/FZY	
		422	1MPC0302418	PAN HEAD MACHINE SCREW +!	D 3.0 L 8.0 MSWR3/FZY	
		425	1SRF0302418	BRAIZER HD TAP TITE SCREW +	D 3.0 L 8.0 MSWR3/FZY	
		426	1MPC0302018	PAN HEAD MACHINE SCREW +!	D 3.0 L 6.0 MSWR3/FZY	
				NUT, WASHER		
		503	354-020E	WASHER	STOPPER	
		504	354-001B	WASHER	P.S D3.1XD6X0.5T	
1		505	354-080E	WASHER	STOPPER	
1		506	352-025A	NUT	NYLON M3	
1		507	354-020J	WASHER	STOPPER(2.6X4.8X0.5)	
		508	352-033A	NUT	NUT NYLON(M3)	
		511	354-080C	WASHER	STOPPER D2.6XD5X0.5T	
		512	354-080E	WASHER	STOPPER	NSP
		513	354-080A	WASHER	STOPPER	NSP
		514	354-080B	WASHER	STOPPER	NSP
		516	354-033B	WASHER	STOPPER	

# 1-2. 8mm Mechanism

RUN DATE: 95.09.26
NSP: Not Service Part

SAL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARK
			ASSEMBLY PARTS	S SECTION	
	A00	412-133A	DECK	SUB ASSY D-21 (F/L)	
	A01	413-306C	DRUM	ASSY DD3SQ	
	A02	225-282A	BASE	ASSY LOADING	.
	A30	219-021A	HOUSING	ASSY F/L (D-21)	
			PARTS SEC	TION	
Т	001	414-156C	MOTOR	D-21 STATTOR, DRUM DM-21 DD1P	NSP
	002	413-352B	DRUM	SUB ASSY	
	003	515-655B	PWB ASSY!	DRUMSIGNAL	NSP
	004	255-148A	PLATE	SIGNAL GROUND	
	005	225-279A	BASE	ASSY DRUM	
	006	225-283A	BASE	SUB ASSY LOADING	
	007	225-285A	BASE	ASSY S/POST(T)	
	008	435-329A	GEAR	SUB ASSY LOADING(T)	
	009	435-327A	GEAR	CAM	
	010	435-332A	GEAR	SUB ASSY LOADING(S)	
	011	225-288A	BASE	ASSY S/POST(S)	İ
	012	657-031A	SENSOR	ASSY LED	
	013	333-264A	LEVER	ASSY DRIVE	
	014	255-058A	PLATE	L/BASE	
Į.	015	321-535A	BRACKET	ASSY SLANT GUIDE	
	016	386-310A	ARM	ASSY SLANT ROLLER	
1	017	386-313A	ARM	ASSY TENSION	- [
-	018	333-254A	LEVER	ASSY BRAKE	·. ]
	019	375-015A	DISC	ASSY REEL(S)	1
- 1	020	222-019A	PROTECTOR	T/BAND	
-	020	321-534A	BRACKET	SENSOR	
-	022	386-307A	ARM	ASSY IDLER	
- [	023	435-323A	GEAR	ASSY DRIVE	
	023	452-054A	BELT	REEL DRIVE (YAMAUCHI)	ŀ
	024	322-051A	SUPPORTER	CST	ļ
	025	657-032A	SENSOR	ASSY END	1
1		338-093A	BRAKE	ASSY SOFT	
	027 028	431-028A	IDLER	BELT	
		445-005A	SPACER	CAM GEAR	1
	029	435-334A	GEAR	ASSY CONVERSION	
	030	414-137B	MOTOR	ASSY LOADING	
	040		CHASSIS	ASSY MAIN(F/L)	NSF
Ī	041	313-041B	BRAKE	CLUTCH	
	042	338-104A	BRACKET	RECOG S/W	
	043	321-533A	PWB ASSY!	ASSY JUNCTION	
	044	515-680A	DISC	ASSY REEL(T)	
	045	375-016A	HOLDER	SHAFT	
	046	324-823A	LEVER	ASSY T/UP	
	047	333-267A		MIDDLE	
	049	435-321A	GEAR	ASSY TRANSFER	
١	050	435-348A	GEAR	D-21 CAPSTAN MOTOR GSD	
	051	414-141A	MOTOR	ASSY PINCH	
1 1	052	386-319A	ARM	A001 FINOIT	

AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
-	053	333-271A	LEVER	ASSY PINCH	NSP
	054	333-269A	LEVER	ASSY MODE	
	056	504-476A	PWB	MODE S/W	
	057	435-347A	GEAR	ASSY MODE	
			SPRING	T/UP ARM(C)	
	058	442-486A		ASSY T/UP	
	059	386-316A	ARM	•	}
	060	352-028A	NUT	T/UP ARM(A)	
	061	352-030A	NUT	T/UP ARM(B)	1
	062	423-483A	SHAFT	ASSY WORM(L)	Non
	100	333-323A	LEVER	ASSY LOADING (L)	NSP
1	101	257-058A	PLATE	GEAR	
	102	435-399A	GEAR	A	
	103	435-401A	GEAR	C	
	104	435-400A	GEAR	В	
	105	435-402A	GEAR	D	
	106	225-329A	BASE	SIDE (L)	
	107	257-057A	PLATE	SIDE BASE	
	108	414-162A	MOTOR	ASSY HOUSING	
	1		PRISM	END SENSOR	
- 1	110	577-014A		ASSY LOADING	
	111	225-332A	BASE		
	112	257-060A	PLATE	ASSY BASE	
1	113	225-328A	BASE	SIDE (R)	Non
	114	333-319A	LEVER	SWITCH	NSP
	115	333-320A	LEVER	DOOR	NSP
	116	442-593A	SPRING	LOCK(L)	
-	117	333-318A	LEVER	LOCK	NSP
	118	333-322A	LEVER	ASSY LOADING (R)	NSP
	119	256-889A	PLATE	CGND	
			SCREW		
	400	353-078B	SCREW	MACHINE+2X9	
	401	353-152A	SCREW	PS (M1.7X2)	
	402	353-153A	SCREW	PS (M2X3)	
	403	353-153B	SCREW	PS(M2X4)	
		353-153C	SCREW	PS (M2X5)	
	404				
	405	353-153D	SCREW	PS (M2X6)	
	407	353-091C	SCREW	SPECIAL M	
	408	1MFU0201418	FLAT HEAD MACHINE SCREW PREC 1	D 2.0 L 4.0 MSWR3/FZY	
			NUT, WASHER		
	500	354-101A	WASHER	SLIDE (1.5TX3.0X0.13)	
1	501	354-099A	WASHER	STOP(1.25X3.0X0.25)	
	501	354-099B	WASHER	STOP(1.25X3.0X0.25)	
		354-104A	WASHER	STOP (2.2X5.0X0.25)	
	502			PS+D6XD2.6XT0.5	1
	520	354-048E	WASHER		
- 1	521	354-120A	WASHER	REEL STOP	

# 2. Cabinet & Main Frame Section

RUN DATE : 95.09.26
NSP: Not Service Part

AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
<u> </u>			ASSEMBLY PARTS	S SECTION	
Τ	A40	315-314N	FRAME	ASSY MAIN	NSP
	A41	3501R-0249A	BOARD ASSY	KEYBOARD 2NDDD1S	
		3501R-0248A	BOARD ASSY	TIMER 2NDDD1S	
	A42	258-722F	PANEL	FRONT ASSY	
	A43	3501R-0247B	BOARD ASSY	SMPS	
	A44		MODULE	PRE AMP ASSY	
	A45	501-522A 3501R-0245D	BOARD ASSY	MAIN	
	A46		BOARD ASSY	8MM PRE-AMP(2NDDD1S)	
	A47	3501R-0251A 3501R-0246A	BOARD ASSY	8MM MAIN (2NDDD1S)	
_	A48	3301H-0240A			
•			PARTS SEC	TION	· · · · · · · ·
	250	217-472C	CASE	TOP	
ļ	251	321-526A	BRACKET	HOUSING	Non
l	260	315-300B	FRAME	MAIN	NSP
l	262	257-061A	PLATE	GND (FTZ)	NSP
	263	324-976A	HOLDER	PWB	NSP
	275	324-872A	HOLDER	DIGITRON	
l	278	273-116A	KNOB	TRACKING	Non
	280	258-717F	PANEL	FRONT	NSP
	282	220-075D	COVER	DOOR ASSY	
1	283	226-104F	DOOR	CST	
1	284	442-469A	SPRING	DOOR	
	288	524-013A	MAGNET	ASSY DOOR	
	289	321-718A	BRACKET	ASSY COVER DOOR	
	290	321-719A	BRACKET	ASSY DAMPER	
1	291	435-465B	GEAR	ASSY DAMPER(T;60)	
	300	681-051A	CORD	KKP-419J B-172 KLCE-2F PAL	
	300	681-951A	CORD	H03VVH2-F 2X0.75MM LP21R/PE221	i
	320	258-596G	PANEL	ASSY DISTRIBUTOR	
	321	257-006A	PLATE	BOTTOM GROUND	
	330	221-834A	COVER	BOTTOM	
	340	226-064K	DOOR	CST 8MM	
	341	442-591A	SPRING	DOOR	
	342	340-088A	HOLDER	ASSY P/AMP 8MM	
			SCRE	N	
_	45:	T 000 0 100	CORDA	(3X10 FZMY)	
	451	353-046C	SCREW	SPECIAL(3X10 FZMY)	
	452	353-051A	SCREW	(3X10 FZMY)	
	459	353-046C	SCREW	SPECIAL(4.6X12.5 FBK)	
1	462	353-136A	SCREW	SPECIAL TP	
	472	353-090A	SCREW	SPECIAL IF	

## 3. Packing Accessory Section

RUN DATE: 95.09.26
NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	480-657G	INSTRUCTION ASSY		
		802	290-452A	BOX CARTON		
		803	283-217A	PACKING		
ĺ		804	291-002D	SHEET CUSHION		NSP
		808	534-008C	BATTERY	AAAM(R03) 1.5V 1PAIR(LOCAL)	
1.		810	861-505J	CABLE SET ASSY	RF-CABLE ASSY PAL FTZ	

### 4. Remote Control Section

RUN DATE: 95.09.26
NSP: Not Service Part

s	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	597-121F	REMOTE CONTROL	2ND D/DECK ASSY	
		901	236-558A	WINDOW	FILTER(2ND D/D)	NSP
		902	220-084B	COVER	D/D3 R/C	NSP
		903	217-485H	CASE	TOP	NSP
ļ		904	275-699B	BUTTON	D/D2 R/C	NSP
		905	275-612A	BUTTON	RUBBER VHS (R/C)	NSP
		906	275-611A	BUTTON	RUBBER 8MM (R/C)	NSP
		907	515-824E	PWB ASSY!	REMOCON (2ND DOUBLE DECK)	NSP
		908	442-611A	SPRING	COIL (R/C)	NSP
ĺ		909	217-486D	CASE	ВОТТОМ	NSP
		910	221-857D	COVER	BATTERY	
		911	477-054A	RUBBER	BUMPON	NSP

## 5. Fixture Section

RUN DATE: 95.09.26

NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		FIX FIX1 FIX2	960-015J 232-972A 515-789A	FIXTURE BOARD ASSY PWB ASSY	SVC FIXTURE SVC FIXTURE FIXTURE (PRE-AMP)	

#### 6. Electrical Section

RUN DATE: 95.09.26

CAUTION: The \* marks in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. Before replacing any of these components, read carefully the SAFETY PRECAUTIONS and SERVICING PRECAUTIONS in the manual. Do not degrade the safety of the unit through improper servicing.

#### Tolerance

Symbol	C	J	K	M	N	Z	P	Α
%	±2	. ±5	±10	±20	±30	+80 -20	+100 -10	+100 -10

CC, CJ, CK: Capacitor, Ceramic CE: Capacitor, Electrolytic CQ: Capacitor, Polyester

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
			CAPA	ACITOR			C210	0CQ1044K409	0.1U 50V JPOLYTE TP
<u> </u>							C211	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C001	0CN2230H948	0.022M 25V Z F TA26	1 1	[	C212	0CN1210K518	120P 50V KB TA26
		C002	0CN1040K948	0.1M 50V ZF TA26	11		C213	0CN1510K518	150P 50V KB TA26
		C003	0CN2230H948	0.022M 25V Z F TA26		1	C214	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C004	0CN1040K948	0.1M 50V ZF TA26			C215	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C005	0CN1040K948	0.1M 50V ZF TA26			C216	0CN4720F668	4700P 16V M X TA26
		C006	0CN2230H948	0.022M 25V Z F TA26	1 1		C217	0CQ4734K409	0.047U 50V J POLY TE TP
		C007	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)	11		C218	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C008	0CN2230H948	0.022M 25V Z F TA26	1 1		C219	0CQ2234K409	0.022U 50V JPOLYTETP
		C009	0CN2230H948	0.022M 25V Z F TA26			C220	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
		C010	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)	1 1		C221	0CQ4734K409	0.047U 50V J POLY TE TP
		C011	0CN1520F668	1500P 16V M X TA26			C222	0CE1054K636	1.0U SRA 50V M FM5 BP TP(D)
		C012	0CX3300K408	33P. 50V JSL TA26	1 1		C223	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C013	0CN2230H948	0.022M 25V Z F TA26	1 1	1	C224	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C014	0CN2710K518	270P 50V KB TA26		1	C225	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C015	0CE3344K638	0.33M SRA 50V M FM5 TP(5)	1 1		C226	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C016	0CE4754K638	4.7M SRA 50V M FM5 TP(5)	1 1		C227	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C017	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C228	0CQ4734K409	0.047U 50V J POLY TE TP
		C018	0CN2230H948	0.022M 25V Z F TA26	11		C229	0CN1030F678	0.01M 16V M Y TA26
	1 1	C019	0CX1000K408	10P 50V JSL TA26	1 1	}	C230	0CQ1221N409	0.0012U 100V J POLY TP
		C020	0CX2400K408	24P 50V JSL TA26		1	C231	0CE1054K636	1.0U SRA 50V M FM5 BP TP(D)
		C021	0CN1030F678	0.01M 16V M Y TA26	) )		C232	0CQ2234K409	0.022U 50V J POLY TE TP
		C022	0CX2200K408	22P 50V J SL TP26			C233	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
		C023	0CN1030F678	0.01M 16V M Y TA26			C234	0CQ2234K409	0.022U 50V JPOLYTETP
		C024	0CX2200K408	22P 50V J SL TP26		i	C235	0CE4766F638	47M SMS 16V M FM5 TP5
		C025	0CX1500K408	15P 50V J SL TA26	1 1		C236	0CN1030F678	0.01M 16V M Y TA26
		C026	0CX1800K408	18P 50V J.SL TA26	1 1		C237	0CN1030F678	0.01M 16V M Y TA26
		C027	0CN1030F678	0.01M 16V M Y TA26	1 1		C238	0CE4766F638	47M SMS 16V M FM5 TP5
ŀ		C028	0CX1200K408	12P 50V J.SL TA26			C239	0CC2400K415	24P 50V JNPO TP
		C029	0CC0600K015	6P 50V C NPO TS			C240	0CC2200K415	22P 50V JNPO TS
		C030	0CX3300K408	33P 50V J.SL TA26			C241	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
l 1		C031	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)	11	1	C242	0CE4766F638	47M SMS 16V M FM5 TP5
[		C032	0CN2230H948	0.022M 25V Z F TA26	1 1		C243	0CN2230H948	0.022M 25V Z F TA26
1	1	C033	0CX2400K408	24P 50V J.SL TA26			C244	0CN1020K518	1000P 50V KB TA26
		C034	0CN1040K948	0.1M 50V ZF TA26			C245	0CN1020K518	1000P 50V KB TA26
		C201	0CN2230H948	0.022M 25V Z.F TA26			C246	0CN1020R318	0.01M 16V M Y TA26
		C202	0CR2230H948	47M SRA/SS 16V M FM5 TP(5)			C247	0CN1030F678	0.01M 16V M Y TA26
		C202	0CN1030F678				C248	0CN1030F678	0.01M 16V M Y TA26
		C203	0CN1030F678	0.01M 16V M Y TA26			C249	0CN1030F678	0.01M 16V M Y TA26
		C204	0CX2700K408	0.01M 16V M Y TA26 27P 50V JSL TA26			C250	0CE2273C638	220M SRE 6.3V M FM5 TP(5)
		C205	1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				C250	0CE22/3C638 0CN1030F678	
		C206	0CE4743K638	0.47M SRE/S50V M FM5 TP(5)			C251		0.01M 16V M Y TA26
		C207	0CN1030F678	0.01M 16V M Y TA26	1 (		C252	0CE4766F638	47M SMS 16V M FM5 TP5
		C208	0CE1054K636 0CQ4734K409	1.0U SRA 50V M FM5 BP TP(D)			C253	0CN1030F678 624-027A	0.01M 16V M Y TA26
	Щ.	0209	00047348409	0.047U 50V J POLY TE TP			0234	024-021A	GOLD 0.047F-5.5V D13.0X8.5 NEC

SA	L LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
	C255	0CE4766F638	47M SMS 16V M FM5 TP5			C327	0CN1030F678	0.01M 16V M Y TA26
	C256	0CE1074F638	100U SRA 16V M FM5 TP(5)			C328	0CE1053K638	1.0M SRE/SE50V M FM5 TP(5)
	C257	0CE2273C638	220M SRE 6.3V M FM5 TP(5)			C329	0CE4766F638	47M SMS 16V M FM5 TP5
	C258	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)		1	C330	0CE1053K638	1.0M SRE/SE50V M FM5 TP(5)
	C259	0CQ8221N409	0.0082U 100V J POLY TP			C332	0CX2400K408	24P 50V J SL TA26
	C260	0CE4766F638	47M SMS 16V M FM5 TP5	1		C333	0CN8200K518	82PF 50V K B TA26
	C261	0CN1030F678	0.01M 16V M Y TA26	1		C334	0CE4766F638	47M SMS 16V M FM5 TP5
	C262	0CE4766F638	47M SMS 16V M FM5 TP5	1		C335	0CN1030F678	0.01M 16V M Y TA26
	C263	0CN2210K518	220P 50V KB TA26		1	C336	0CN4710K518	470P 50V KB TA26
	C264	0CN1030F678	0.01M 16V M Y TA26			C337	0CN1030F678	0.01M 16V M Y TA26
	C266	0CN1040K948	0.1M 50V ZF TA26	1	l	C338	0CN2230H948	0.022M 25V Z F TA26
	C267	0CN1030F678	0.01M 16V M Y TA26			C339	0CE3354K638	3.3M SRA 50V M FM5 TP(5)
	C268	0CE4766F638	47M SMS 16V M FM5 TP5		1	C340	0CN4730K948	0.047M 50V Z F TA26
	C271	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)	1.	1	C341	0CE1043K638	0.1M SRE 50V M FM5 TP(5)
	C272	0CN4730K948	0.047M 50V Z F TA26		1	C342	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
	C273	0CE4766F638	47M SMS 16V M FM5 TP5	ı		C343	0CE3354K638	3.3M SRA 50V M FM5 TP(5)
	C275	0CN4730K948	0.047M 50V Z F TA26	1	1	C344	0CE2253K638	2.2M SRE 50V M FM5 TP(5)
			100P 50V KB TA26			C345	0CE1064F638	10M SRA 16V M FM5 TP(5)
	C276	0CN1010K518 0CN1010K518	100P 50V KB TA26	1	1	C349	0CX3900K408	39P 50V J SL TA26
	C277	0CE4766F638	47M SMS 16V M FM5 TP5			C350	0CE4743K638	0.47M SRE/S50V M FM5 TP(5)
	C278		0.01M 16V M Y TA26		1	C351	0CN1020K518	1000P 50V KB TA26
	C279	0CN1030F678	0.1M 50V ZF TA26		1	C352	0CE2246K638	0.22M SMS 50V M FM5 TP(5)
	C280	0CN1040K948	47M SMS 16V M FM5 TP5			C353	0CN1510K518	150P 50V KB TA26
	C281	0CE4766F638		1		C354	0CE1053K638	1.0M SRE/SE50V M FM5 TP(5)
	C298	0CE4766K638	47M SMS 50V M FM5 TP	1	1	C355	0CN2230H948	0.022M 25V Z F TA26
1	C299	0CN1040K948	0.1M 50V ZF TA26	1	1	i .	0CN1030F678	0.01M 16V M Y TA26
	C2A1	0CN1040K948	0.1M 50V ZF TA26		1	C357		0.01M 16V M Y TA26
	C2A2	0CN1040K948	0.1M 50V ZF TA26		1	C358	0CN1030F678	
	C2A3	0CN1030F678	0.01M 16V M Y TA26		1	C359	0CE4775F638	470M SR 16V M FM5 TP(5)
-	C301	0CN1030F678	0.01M 16V M Y TA26			C360	0CN1030F678	0.01M 16V M Y TA26
- 1	C302	0CN1030F678	0.01M 16V M Y TA26		1	C361	0CX0100K608	1.0P 50V M SL TA(26)
	C303	0CX4700K408	47P 50V J SL TA26		1	C362	0CE3354K638	3.3M SRA 50V M FM5 TP(5)
- 1	C308	0CE4766F638	47M SMS 16V M FM5 TP5			C363	0CN1210K518	120P 50V KB TA26
	C30B	0CN1040K948	0.1M 50V ZF TA26			C364	0CX3300K408	33P 50V JSL TA26
- [	C30C	0CN1040K948	0.1M 50V ZF TA26			C365	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
- 1	C30E	0CN1030F678	0.01M 16V M Y TA26			C366	OCN1040K948	0.1M 50V ZF TA26
- 1	C30F	0CE4766F638	47M SMS 16V M FM5 TP5			C367	0CQ6831N409	0.068U 100V J POLY TP
	C30G	0CN1020K518	1000P 50V KB TA26		1	C368	0CE4743K638	0.47M SRE/S50V M FM5 TP(5)
- 1	C301	0CN1030F678	0.01M 16V M Y TA26		1	C369	0CE2246K638	0.22M SMS 50V M FM5 TP(5)
	C30J	0CX3300K408	33P 50V J SL TA26		ĺ	C370	0CE4775F638	470M SR 16V M FM5 TP(5)
	C30K	0CC0500K115	5P 50V DNP0 TS			C371	0CN1030F678	0.01M 16V M Y TA26
	C30L	0CN1030F678	0.01M 16V M Y TA26			C372	0CE1064F638	10M SRA 16V M FM5 TP(5)
	C30M	0CN1030F678	0.01M 16V M Y TA26			C373	0CN4710K518	470P 50V KB TA26
- 1	C30N	0CN1030F678	0.01M 16V M Y TA26			C374	0CX2400K408	24P 50V JSL TA26
	C312	0CX3300K408	33P 50V J SL TA26	1		C375	0CE4766F638	47M SMS 16V M FM5 TP5
	C312	0CE4766F638	47M SMS 16V M FM5 TP5			C376	0CE4743K638	0.47M SRE/S50V M FM5 TP(5)
	C314	0CN1030F678	0.01M 16V M Y TA26			C377	0CN2230H948	0.022M 25V Z F TA26
			47M SMS 16V M FM5 TP5			C378	0CX1800K408	18P 50V J SL TA26
	C316	0CE4766F638				C379	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
	C317	0CN1030F678	0.01M 16V M Y TA26 470P 50V KB TA26			C380	0CN4730K948	0.047M 50V Z F TA26
	C318	0CN4710K518				C381	0CN4730R948	0.01M 16V M Y TA26
	C31A	0CN1030F678	0.01M 16V M Y TA26			C394	0CN1030F678	0.01M 16V M Y TA26
	C31C	0CN8200K518	82PF 50V K B TA26		1		0CE1053K638	1.0M SRE/SE50V M FM5 TP(5)
	C31E	0CN1030F678	0.01M 16V M Y TA26			C398	0CN1030F678	0.01M 16V M Y TA26
	C31H	0CE4766F638	47M SMS 16V M FM5 TP5			C399		10P 50V J.S.L. TA26
- 1	C31J	0CX1000K408	10P 50V JSL TA26			C3A0	0CX1000K408	0.01M 16V M Y TA26
	C31K	0CX1200K408	12P 50V J SL TA26			C3A1	0CN1030F678	
	C31L	0CN1030F678	0.01M 16V M Y TA26			C3A2	0CN1030F678	0.01M 16V M Y TA26
-	C320	0CE4766F638	47M SMS 16V M FM5 TP5			C3A3	0CE4766F638	47M SMS 16V M FM5 TP5
1	C322	0CN1030F678	0.01M 16V M Y TA26	i		C3A4	0CN2230H948	0.022M 25V Z F TA26
	C323	0CN1030F678	0.01M 16V M Y TA26			C3A5	0CN1030F678	0.01M 16V M Y TA26
I	C324	0CN1030F678	0.01M 16V M Y TA26			C3A6	0CN1030F678	0.01M 16V M Y TA26
	C325	0CN1030F678	0.01M 16V M Y TA26			C3A7	0CN1040K948	0.1M 50V ZF TA26
	C326	0CN1030F678	0.01M 16V M Y TA26		- 1	C3A8	0CE4744K638	0.47M SRA 50V M FM5 TP(5)

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		C3B0	0CE4744K638	0.47M SRA 50V M FM5 TP(5)			C3K2	0CQ8221N409	0.0082U 100V J POLY TP
		C3B1	0CN2230H948	0.022M 25V Z F TA26	11		C401	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3B2	0CE2254K638	2.2M SRA 50V M FM5 TP(5)			C402	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3B3	0CN1210K518	120P 50V KB TA26			C403	0CN1040K948	0.1M 50V ZF TA26
	1	C3B4	0CC0600K015	6P 50V C NPO TS			C404	0CN1040K948	0.1M 50V ZF TA26
		C3B5	0CX1000K408	10P 50V JSL TA26			C405	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C3B6	0CE4766F638	47M SMS 16V M FM5 TP5	11		C406	0CE1064F638	10M SRA 16V M FM5 TP(5)
ļ		C3B7	0CN1030F678	0.01M 16V M Y TA26			C407	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3B8	0CC3900K415	39P 50V J NPO TP	1 1		C408	0CE1064F638	10M SRA 16V M FM5 TP(5)
o.		C3B9	0CN2230H948	0.022M 25V Z F TA26	1 1		C409	0CE2266F638	22M SMS 16V M FM5 TP5
		C3C0	0CN1030F678	0.01M 16V M Y TA26			C410	0CN1040K948	0.1M 50V Z.F TA26
1		C3C1	0CN1040K948	0.1M 50V ZF TA26			C411	0CE1064F638	10M SRA 16V M FM5 TP(5)
	ł	C3C2	0CE4766F638	47M SMS 16V M FM5 TP5			C412	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
1		C3C3	0CN2230H948	0.022M 25V Z.F. TA26			C413	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3C4	0CE1044K638	0.1M SRA 50V M FM5 TP(5)	1 1		C414	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3C5	0CN1030F678	0.01M 16V M Y TA26	1 1	1	C415	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
ı		C3C6	0CN1030F678	0.01M 16V M Y TA26	11		C416	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C3C7	0CE1064F638	10M SRA 16V M FM5 TP(5)			C417	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
			0CN1030F678	0.01M 16V M Y TA26			C418	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C3C8		0.1M 50V ZF TA26			C419	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3C9	0CN1040K948 0CX1500K408	15P 50V J.SL TA26			C420	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3E0		1.0M SRA/SS50V M FM5 TP(5)			C422	0CE1064F638	10M SRA 16V M FM5 TP(5)
1	1	C3E1	0CE1054K638	4.7M SRA/5550V M FM5 TP(5)			C423	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C3E2	0CE4754K638	47M SMS 16V M FM5 TP5			C424	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3E3	0CE4766F638	0.1M 50V ZF TA26			C425	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
1		C3E4	0CN1040K948	4.7M SRA 50V M FM5 TP(5)	11		C426	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3E5	0CE4754K638		11		C427	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
1	1	C3E6	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)		1	C428	0CE2274F638	220M SRA 16V M FM5 TP(5)
1	-	C3E7	0CN2230H948	0.022M 25V Z F TA26	1 1		C429	0CE2266F638	22M SMS 16V M FM5 TP5
1		C3E8	0CE4766F638	47M SMS 16V M FM5 TP5				0CE3366F638	33M SMS 16V M FM5 TP(5)
	1	C3E9	0CN3310K518	330P 50V K B TA26		1	C430		10M SRA 16V M FM5 TP(5)
1		C3F0	0CN1030F678	0.01M 16V M Y TA26			C431	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3F1	0CX2200K408	22P 50V J SL TP26			C432	0CE1064F638	
1		C3F2	0CE1044K638	0.1M SRA 50V M FM5 TP(5)		1	C433	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C3F3	0CN1010K518	100P 50V KB TA26			C434	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
1		C3F4	0CX1200K408	12P 50V J SL TA26	11		C435	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
	ı	C3F5	0CX6800K408	68P 50V J SL TA26			C436	0CE2274F638	220M SRA 16V M FM5 TP(5)
		C3F6	0CN1030F678	0.01M 16V M Y TA26			C437	0CN2230H948	0.022M 25V Z F TA26
		C3F7	0CN1010K518	100P 50V KB TA26	11		C438	0CN2230H948	0.022M 25V Z F TA26
-	1	C3F8	0CN1020K518	1000P 50V KB TA26	11		C439	0CE2274F638	220M SRA 16V M FM5 TP(5)
1		C3F9	0CE4754K638	4.7M SRA 50V M FM5 TP(5)			C440	0CE4766F638	47M SMS 16V M FM5 TP5
	1	C3G0	0CN8200K518	82PF 50V K B TA26			C441	0CN1040K948	0.1M 50V Z F TA26
1		C3G1	0CN3910K518	390P 50V KB TA26	11		C442	0CQ1231N409	0.012U 100V J POLY TP
	1	C3G2	0CE1064F638	10M SRA 16V M FM5 TP(5)			C443	0CQ1031N409	0.01UF 100V J PE TP
ł	1	C3G3	0CN1520F668	1500P 16V M X TA26			C444	0CN1030F678	0.01M 16V M Y TA26
-		C3G4	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C445	0CE4766F638	47M SMS 16V M FM5 TP5
- [		C3G5	0CE4766F638	47M SMS 16V M FM5 TP5			C446	0CQ1031N409	0.01UF 100V J PE TP
-	1	C3G6	0CN2230H948	0.022M 25V ZF TA26			C447	0CN1030F678	0.01M 16V M Y TA26
	1	C3G7	0CE4766F638	47M SMS 16V M FM5 TP5			C448	0CE1074F638	100U SRA 16V M FM5 TP(5)
1		C3G8	0CN2230H948	0.022M 25V Z F TA26			C449	0CQ1031N409	0.01UF 100V J PE TP
		C3G9	0CN1030F678	0.01M 16V M Y TA26			C450	0CE2266F638	22M SMS 16V M FM5 TP5
Ī		C3H0	0CN4710K518	470P 50V KB TA26			C451	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3H1	0CE4766F638	47M SMS 16V M FM5 TP5			C452	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
,	1			0.022M 25V Z F TA26			C453	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3H2	0CN2230H948	0.022M 25V Z F TA26			C454	0CN1040K948	0.1M 50V ZF TA26
		C3H3	0CN2230H948				C455	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C3H4	0CE4766F638	47M SMS 16V M FM5 TP5			C456	0CN1040K948	0.1M 50V ZF TA26
1		C3H5	0CC0400K015	4P 50V C NPO TS			C457	0CQ8221N409	0.0082U 100V J POLY TP
		C3H6	0CX2200K408	22P 50V J SL TP26			C457	0CE2266F638	22M SMS 16V M FM5 TP5
- [		C3H7	0CE4754K638	4.7M SRA 50V M FM5 TP(5)			C459	0CE3366F638	33M SMS 16V M FM5 TP(5)
		C3H8	0CN1030F678	0.01M 16V M Y TA26				0CN3910K518	390P 50V KB TA26
١	Ì	C3H9	0CN1040K948				C460		
ļ	1	C3K0	0CE1064F638	10M SRA 16V M FM5 TP(5)			C461	0CQ5631N409	
	- 1	C3K1	0CX4700K408	47P 50V JSL TA26	1 1		C462	0CQ3331N409	0.0000 1004 01 OLI 11

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
П		C463	0CN2210K518	220P 50V KB TA26			C4B4	0CN1020K518	1000P 50V KB TA26
		C464	0CN1030F678	0.01M 16V M Y TA26			C4B5	0CN1020K518	1000P 50V KB TA26
		C465	0CE1074F638	100U SRA 16V M FM5 TP(5)			C4B6	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C466	0CE4754K638	4.7M SRA 50V M FM5 TP(5)	ŀ		C4B7	0CN4710K518	470P 50V KB TA26
		C467	0CQ1031N409	0.01UF 100V J PE TP			C4B8	0CN1030F678	0.01M 16V M Y TA26
		C468	0CE1076F638	100M SMS 16V M FM5 TP(5)	1	ı	C4B9	0CK3320K515	3300P 50V KB TS
		C469	0CN2230H948	0.022M 25V Z F TA26			C4C0	0CE4754K638	4.7M SRA 50V M FM5 TP(5) 10M SRA 16V M FM5 TP(5)
		C470	0CE1064F638	10M SRA 16V M FM5 TP(5)			C4C1	0CE1064F638	
		C471	0CE1064F638	10M SRA 16V M FM5 TP(5)	1	l	C4C2	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5) 4.7M SRA 50V M FM5 TP(5)
		C472	0CQ1231N409	0.012U 100V J POLY TP			C4C3	0CE4754K638	10M SRA 16V M FM5 TP(5)
!		C473	0CN1030F678	0.01M 16V M Y TA26			C4C4	0CE1064F638	470P 50V KB TA26
		C474	0CE4754K638	4.7M SRA 50V M FM5 TP(5)	ŀ		C4C5	0CN4710K518	0.01M 16V M Y TA26
		C475	0CN2710K518	270P 50V KB TA26			C4C6	0CN1030F678 0CK3320K515	3300P 50V KB TS
1		C476	0CE4744K638	0.47M SRA 50V M FM5 TP(5)		1	C4C7 C4C8	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C477	0CN1030F678	0.01M 16V M Y TA26			C4C9	0CN1020K518	1000P 50V KB TA26
		C478	0CE1064F638	10M SRA 16V M FM5 TP(5)			C4E9	0CN1020K518	1000P 50V KB TA26
		C479	0CN1030F678	0.01M 16V M Y TA26			C4E0	0CE4766F638	47M SMS 16V M FM5 TP5
		C480	0CN1030F678	0.01M 16V M Y TA26			C4E1	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
		C481	0CE1074F638	100U SRA 16V M FM5 TP(5)			C4E3	0CE3366F638	33M SMS 16V M FM5 TP(5)
		C482	0CN1030F678	0.01M 16V M Y TA26 0.1M 50V Z.F TA26			C4E4	0CN1520F668	1500P 16V M X TA26
		C483	0CN1040K948	0.1M 50V ZP 1A26	1		C4E5	0CN2220F668	2200P 16V M X TA26
		C484	0CN1030F678 0CE2274F638	220M SRA 16V M FM5 TP(5)			C4E6	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
	1	C485	0CE2274F638 0CE4754K638	4.7M SRA 50V M FM5 TP(5)			C4E7	0CN1020K518	1000P 50V KB TA26
1		C486	0CE4754R056 0CN1030F678	0.01M 16V M Y TA26			C4E8	0CN1020K518	1000P 50V KB TA26
'	Ì	C487	0CQ1231N409	0.012U 100V J POLY TP			C4E9	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C488 C489	0CE1064F638	10M SRA 16V M FM5 TP(5)			C4F0	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
1	1	C490	0CE1064F638	10M SRA 16V M FM5 TP(5)			C4F1	0CX3300K408	33P 50V J SL TA26
	ļ	C491	0CQ1031N409	0.01UF 100V J PE TP			C4F2	0CN1030F678	0.01M 16V M Y TA26
	ĺ	C492	0CE4754K638	4.7M SRA 50V M FM5 TP(5)			C4F3	0CN1220F668	1200P 16V M X TA26
1		C493	0CQ1031N409	0.01UF 100V J PE TP			C4F4	0CE4766F638	47M SMS 16V M FM5 TP5
		C494	0CQ1031N409	0.01UF 100V J PE TP			C4F5	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
1		C495	0CN2230H948	0.022M 25V Z F TA26			C4F6	0CN2230H948	0.022M 25V Z F TA26
	ı	C496	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C4F7	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
	[	C497	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C4F8	0CN1220F668	1200P 16V M X TA26
		C498	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)			C4G0	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C499	0CE4766F638	47M SMS 16V M FM5 TP5			C4G1	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C4A0	0CN1030F678	0.01M 16V M Y TA26			C4G2	0CN2230H948	0.022M 25V Z F TA26
		C4A1	0CE4766F638	47M SMS 16V M FM5 TP5(VHS)			C4G3	0CN1030F678	0.01M 16V M Y TA26
1	1	C4A1	0CN1030F678	0.01M 16V M Y TA26(8mm)			C500	0CN1040K948	0.1M 50V ZF TA26
1	1	C4A2	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)		1	C501	0CN1040K948	0.1M 50V ZF TA26
1		C4A3	0CN1030F678	0.01M 16V M Y TA26(8mm)			C502	0CX1800K408	18P 50V JSL TA26
1		C4A3	0CN1510K518	150P 50V K B TA26(VHS)			C503	0CX2200K408	22P 50V J SL TP26 47M SRA/SS 16V M FM5 TP(5)
		C4A4	0CE1054K638	1M SRA/SS50V M FM5 TP(5)(8mm)			C504	0CE4764F638	0.1M 50V ZF TA26
		C4A4	0CN1510K518	150P 50V K B TA26(VHS)			C505	0CN1040K948 0CN1040K948	0.1M 50V ZF TA26
	İ	C4A5	0CE1074F638	100U SRA 16V M FM5 TP(5)(VHS)			C506	0CN1040K548	1000P 50V KB TA26
	1	C4A5	0CX3300K408	33P 50V J SLTA26(8mm)			C507 C508	0CN1020K318	0.1M 50V Z.F TA26
-		C4A6	0CN1020K518	1000P 50V KBTA26(8mm)			C509	0CN1030F678	0.01M 16V M Y TA26
		C4A6	0CN1040K948	0.1M 50V ZFTA26(VHS) 1000P 50V KBTA26			C510	0CN1040K948	0.1M 50V ZF TA26
1		C4A7	0CN1020K518	1M SRA/SS50V M FM5 TP(5)(8mm)			C511	0CE4766F638	47M SMS 16V M FM5 TP5
		C4A8	0CE1054K638 0CN1040K948	0.1M 50V ZFTA26(VHS)			C512	0CN1040K948	0.1M 50V ZF TA26
		C4A8	0CN1040K948	0.1M 50V ZFTA26(VHS)			C513	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C4A9	0CN1040K948	2200P 16V M X TA26(8mm)			C514	0CE4766F638	47M SMS 16V M FM5 TP5
		C4A9 C4B0	0CN2220F668	1500P 16V M X TA26			C515	0CN1040K948	0.1M 50V ZF TA26
1		C4B0	0CE3366F638	33M SMS 16V M FM5 TP(5)(8mm)			C516^	0CN1030F678	0.01M 16V M Y TA26
	1	C4B1	0CN1030F678	0.01M 16V M Y TA26(VHS)			C517	0CN1040K948	0.1M 50V ZF TA26
		C4B1	0CE2254K638	2.2M SRA 50V M FM5 TP(5)(8mm)			C518	0CN1040K948	0.1M 50V ZF TA26
1		C4B2	0CE4766F638	47M SMS 16V M FM5 TP5(VHS)		1	C519	0CN1040K948	0.1M 50V ZF TA26
1		C4B3	0CE4754K638				C520	0CN1040K948	0.1M 50V ZF TA26
1		C4B3	0CN1040K948				C521	0CE4766F638	47M SMS 16V M FM5 TP5
	1	C4B4	0CE1074F638	100U SRA 16V M FM5 TP(5)			C522	0CN1030F678	0.01M 16V M Y TA26
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s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
Г		C523	0CN4730K948	0.047M 50V Z F TA26			C703	0CE4754K638	4.7M SRA 50V M FM5 TP(5)
		C524	0CE4766F638	47M SMS 16V M FM5 TP5			C704	0CN1040K948	0.1M 50V ZF TA26
		C525	0CE4766F638	47M SMS 16V M FM5 TP5		1	C705	0CN1040K948	0.1M 50V ZF TA26
	ļ	C526	0CN6820F668	6800P 16V M X TA26		1	C707	0CN2230H948	0.022M 25V Z F TA26
		C527	0CN1040K948	0.1M 50V ZF TA26	1	1	C709	0CN2230H948	0.022M 25V Z F TA26
		C528	0CN1020K518	1000P 50V KB TA26		ı	C710	0CE1074F638	100U SRA 16V M FM5 TP(5)
1		C529	0CN6820F668	6800P 16V M X TA26			C711	0CN2230H948	0.022M 25V Z F TA26
	1	C530	0CN1040K948	0.1M 50V Z.F TA26	. I		C712	0CN1040K948	0.1M 50V ZF TA26
		C531	0CN1020K518	1000P 50V KB TA26		[	C713	0CN1040K948	0.1M 50V ZF TA26
		C532	0CE4766F638	47M SMS 16V M FM5 TP5			C714	0CC1200K415	12P 50V JNP0 TS
1		C533	0CE4754K638	4.7M SRA 50V M FM5 TP(5)	. [		C716	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
		C534	0CN1040K948	0.1M 50V ZF TA26		]	C717	0CN4730K948	0.047M 50V Z F TA26
		C535	0CN1040K948	0.1M 50V Z.F. TA26			C718	0CE4766F638	47M SMS 16V M FM5 TP5
1		C536	0CE2266F638	22M SMS 16V M FM5 TP5			C719	0CN2230H948	0.022M 25V Z F TA26
		C537	0CN1030F678	0.01M 16V M Y TA26	.		C720	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
		C538	0CN1030F678	0.01M 16V M Y TA26			C721	0CN6810K518	680P 50V KB TA26
		C539	0CK3320K515	3300P 50V KB TS	- 1	1	C722	0CE1074F638	100U SRA 16V M FM5 TP(5)
		C540	0CK3320K515	3300P 50V KB TS	1	1	C724	0CN2230H948	0.022M 25V Z F TA26
		C540	0CK3320K515	3300P 50V KB TS			C725	0CN2230H946 0CX4700K408	47P 50V J SL TA26
		C541	0CE4766F638	47M SMS 16V M FM5 TP5		1	C726	0CE4766F638	47M SMS 16V M FM5 TP5
l									
		C544	0CE4766F638	47M SMS 16V M FM5 TP5			C727	0CN2230H948	0.022M 25V Z F TA26
		C545	0CN1040K948	0.1M 50V ZF TA26	. 1		C728	0CX2200K408	22P 50V J SL TP26
1		C546	0CN1040K948	0.1M 50V ZF TA26			C729	0CN2230H948	0.022M 25V Z F TA26
		C547	0CN1030F678	0.01M 16V M Y TA26			C730	0CE4766F638	47M SMS 16V M FM5 TP5
		C548	0CN2710K518	270P 50V KB TA26		1	C740	0CE2274F638	220M SRA 16V M FM5 TP(5)
		C549	0CQ8221N409	0.0082U 100V J POLY TP			C741	0CC2700K415	27P 50V J NP0 TP
l		C550	0CN1020K518	1000P 50V KB TA26		1	C742	0CE4766F638	47M SMS 16V M FM5 TP5
1		C551	0CN2230H948	0.022M 25V Z F TA26			C743	0CN2230H948	0.022M 25V Z F TA26
		C552	0CE4766F638	47M SMS 16V M FM5 TP5		1	C744	0CE4766F638	47M SMS 16V M FM5 TP5
1		C553	0CC1000K015	10P 50V C NPO TS		i	C745	0CN1040K948	0.1M 50V ZF TA26
		C554	0CC1000K015	10P 50V CNP0 TS			C747	0CE4766F638	47M SMS 16V M FM5 TP5
1		C555	0CN1040K948	0.1M 50V ZF TA26			C748	0CN1040K948	0.1M 50V ZF TA26
l		C556	0CN2230H948	0.022M 25V Z F TA26		1	C749	0CN3910K518	390P 50V KB TA26
1		C557	0CE4766F638	47M SMS 16V M FM5 TP5			C750	0CN3910K518	390P 50V KB TA26
		C558	0CN4710K518	470P 50V KB TA26			C751	0CQ6821N409	0.0068U 100V J POLY TP
ı		C559	0CN4710K518	470P 50V KB TA26			C752	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C560	0CN1040K948	0.1M 50V Z.F TA26			C753	0CQ6821N409	0.0068U 100V J POLY TP
		C561	0CN1040K948	0.1M 50V ZF TA26		1	C754	0CE1064F638	10M SRA 16V M FM5 TP(5)
1		C562	0CQ4721N409	0.0047U 100V J POLY TP			C756	0CN2230H948	0.022M 25V Z F TA26
		C563	0CX1200K408	12P 50V JSL TA26			C757	0CE4766F638	47M SMS 16V M FM5 TP5
1		C564	0CN1030F678	0.01M 16V M Y TA26			C759	0CE3354K638	3.3M SRA 50V M FM5 TP(5)
		C565	0CN1040K948	0.1M 50V ZF TA26			C760	0CN1040K948	0.1M 50V ZF TA26
1		C566	0CN1030F678	0.01M 16V M Y TA26			C761	0CN4710K518	470P 50V KB TA26
		C567	0CN1030F678	0.01M 16V M Y TA26			C762	0CN4710K518	470P 50V KB TA26
1		C568	0CN1030F678	0.01M 16V M Y TA26			C763	0CE1064F638	10M SRA 16V M FM5 TP(5)
		C569	0CX5600K408	56P 50V J SL TA26			C764	0CN1040K948	0.1M 50V Z.F TA26
]		C601	0CN1040K948			1	C765		0.01M 16V M Y TA26
ĺ		C602	0CN1040K948	0.1M 50V ZF TA26 0.1M 50V ZF TA26			C765	0CN1030F678	
								0CC1200K415	
1		C603	0CX1800K408	18P 50V JSL TA26			C767	0CC1200K415	12P 50V JNPO TS
1		C604	0CN1040K948	0.1M 50V ZF TA26			C768	0CE4766F638	47M SMS 16V M FM5 TP5
		C605	0CE4754H638	4.7M SRA 25V M FM5 TP(5)			C769	0CN2230H948	0.022M 25V Z F TA26
1		C606	0CE4766F638	47M SMS 16V M FM5 TP5			C770	0CE4766F638	47M SMS 16V M FM5 TP5
1		C607	0CE2264F638	22M SRA 16V M FM5 TP(5)			C772	0CE2254K638	2.2M SRA 50V M FM5 TP(5)
		C608	0CN1020K518	1000P 50V KB TA26			C773	0CN2230H948	0.022M 25V Z F TA26
1		C609	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C774	0CN1040K948	0.1M 50V ZF TA26
1		C610	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)		j	C775	0CN1040K948	0.1M 50V ZF TA26
		C611	0CE2254K638	2.2M SRA 50V M FM5 TP(5)			C776	0CN1040K948	0.1M 50V ZF TA26
1		C612	0CN1010K518	100P 50V KB TA26			C779	0CE2274F638	220M SRA 16V M FM5 TP(5)
1		C613	0CN1040K948	0.1M 50V ZF TA26			C780	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
l		C614	0CN1040K948	0.1M 50V ZF TA26			C781	0CE4766F638	47M SMS 16V M FM5 TP5
1		C615	0CN1020K518	1000P 50V KB TA26			C782	0CN1040K948	0.1M 50V ZF TA26
	1	C616	0CN1040K948	0.1M 50V ZF TA26		1	C785	0CE4766F638	47M SMS 16V M FM5 TP5
$oldsymbol{ol}}}}}}}}}}}}}}}}}}$						L			

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
$\vdash$		C801	0CE4766F638	47M SMS 16V M FM5 TP5			C890	0CX6800K408	68P 50V J SL TA26
	1	C802	0CN1030F678	0.01M 16V M Y TA26			C892	0CN1040K948	0.1M 50V Z F TA26
l		C803	0CN1040K948	0.1M 50V ZF TA26			C901	0CH1223K516	0.022U 50V K B 2.0X1.2 R/TP
		C804	0CX6800K408	68P 50V J SL TA26			C903	0CH1103K516	0.01U 50V KB 2.0X1.25 R/TP
	1	C805	0CN1030F678	0.01M 16V M Y TA26			C904	0CH4101K416	100P 50V J NP0 2.0*1.25 R/TP
1	1	C808	0CX6800K408	68P 50V J SL TA26			C905	0CH4270K416	27P 50V J COG 2.0X1.2 R/TP
	-	C813	0CN1030F678	0.01M 16V M Y TA26		1	C906	0CH4561K416	560PF 50V J NP0 2012 R/TP
1		C814	0CE4766F638	47M SMS 16V M FM5 TP5			C907	0CH4270K416	27P 50V J COG 2.0X1.2 R/TP
1		C815	0CE1064F638	10M SRA 16V M FM5 TP(5)			C908	0CE1074F638	100U SRA 16V M FM5 TP(5)
1	1	C816	0CQ1021N409	0.001U 100V J POLY TP			C909	0CN1030F678	0.01M 16V M Y TA26
		C817	0CQ3321N409	0.0033U 100V J POLY TP			C910	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
1		C818	0CQ3321N409	0.0033U 100V J POLY TP			C911	0CN1030F678	0.01M 16V M Y TA26
		C819	0CQ6831N409	0.068U 100V J POLY TP			C912	0CH4121K416	120P 50V J NP0 2.0X1.2 R/TP
		C820	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C914	0CE1044K638	0.1M SRA 50V M FM5 TP(5)
1		C821	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)		1	C915	0CH4330K416	33P 50V J C 2.0X1.2 R/TP
		C822	0CN1010K518	100P 50V KB TA26			C916	0CH1223K516	0.022U 50V K B 2.0X1.2 R/TP
1		C823	0CE1064F638	10M SRA 16V M FM5 TP(5)			C917	0CN2230H948	0.022M 25V Z F TA26
1		C824	0CE4766F638	47M SMS 16V M FM5 TP5			C918	0CE2244K638	0.22M SRA 50V M FM5 TP(5)
		C825	0CN1030F678	0.01M 16V M Y TA26		1	C919	0CH4390K416	39P 50V J COG 2.0X1.2 R/TP
	_	C826	0CE1076F638	100M SMS 16V M FM5 TP(5)			C920	0CH4390K416	39P 50V J COG 2.0X1.2 R/TP
			0CE4766F638	47M SMS 16V M FM5 TP5			C921	0CE2244K638	0.22M SRA 50V M FM5 TP(5)
		C827		33P 50V JSL TA26			C922	0CH1223K516	0.022U 50V K B 2.0X1.2 R/TP
		C828	0CX3300K408 0CX2200K408	22P 50V J SL TP26			C923	0CH1223K516	0.022U 50V K B 2.0X1.2 R/TP
1		C829		100M SMS 16V M FM5 TP(5)			C924	0CE2244K638	0.22M SRA 50V M FM5 TP(5)
		C830	0CE1076F638	39P 50V JSL TA26			C925	0CH4390K416	39P 50V J COG 2.0X1.2 R/TP
		C831	0CX3900K408	0.01M 16V M Y TA26			C926	0CH4390K416	39P 50V J COG 2.0X1.2 R/TP
	1	C832	0CN1030F678	100M SMS 16V M FM5 TP(5)			C927	0CE2244K638	0.22M SRA 50V M FM5 TP(5)
1		C833	0CE1076F638			1	C928	0CH1223K516	0.022U 50V K B 2.0X1.2 R/TP
1		C835	0CE4775C638	470M SR 6.3V M FM5 TP(5) 100P 50V K B TA26			C929	0CE4764F638	47M SRA/SS 16V M FM5 TP(5)
	ı	C836	0CN1010K518	1		1	C930	0CN1030F678	0.01M 16V M Y TA26
		C837	0CC1000K015	10P 50V C NPO TS			C931	0CH4101K416	100P 50V J NP0 2.0*1.25 R/TP
		C838	0CC1200K415	12P 50V J NPO TS 0.1M 50V Z F TA26			C932	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
1	1	C839	0CN1040K948				C933	0CN1020K518	1000P 50V KB TA26
		C840	0CN1030F678	0.01M 16V M Y TA26			C934	0CH4101K416	100P 50V J NP0 2.0*1.25 R/TP
		C843	0CE1076F638	100M SMS 16V M FM5 TP(5)			C935	0CH4101K416	100P 50V J NP0 2.0*1.25 R/TP
ı		C845	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C936	0CH4102K416	1000P 50V J X7R 2.0X1.25
	1	C846	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C937	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
	1	C847	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C938	0CE1074F638	100U SRA 16V M FM5 TP(5)
		C848	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C939	0CN1030F678	0.01M 16V M Y TA26
-		C849	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C940	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C850	0CN1030F678	0.01M 16V M Y TA26			C941	0CN1030F678	0.01M 16V M Y TA26
	-	C851	0CE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C942	0CE1074F638	100U SRA 16V M FM5 TP(5)
1		C852	0CN1020K518	1000P 50V KB TA26			C943	0CH1103K516	0.01U 50V KB 2.0X1.25 R/TP
1		C853	0CN1020K518	1000P 50V KB TA26			C944	0CH1103K516	0.01U 50V KB 2.0X1.25 R/TP
-		C854	0CN1020K518	1000P 50V KB TA26			C945	0CH1103K310	56P 50V J NPO 2.0X1.25 R/TP
		C856	0CN1020K518	1000P 50V KB TA26			C950	0CH1223K516	0.022U 50V K B 2.0X1.2 R/TP
		C859	0CN1020K518	1000P 50V KB TA26				624-088A	KNB1530 AC250V/0.1UF ISKARA
		C860	0CN1020K518	1000P 50V KB TA26	11	O		624-088B	ECQU2A104MVA AC250/0.1UF MATSU
		C864	0CN1020K518	1000P 50V KB TA26			CP01	624-066E	AC CON 472/400V,E,AA(S/S)
	-	C871	0CN1020K518	1000P 50V KB TA26		1	CP03	624-066E	AC CON 472/400V,E,AA(S/S)
1		C874	0CE1064F638	10M SRA 16V M FM5 TP(5)			CP04		ES-2230-100-400-M SMPS RI-C
	-	C875	0CE1064F638	10M SRA 16V M FM5 TP(5)			CP05	624-084H	
	- 1	C876	0CE1064F638	10M SRA 16V M FM5 TP(5)			CP06	0CE107BH638	100U KME 25V M FM5 TP5
		C877	0CE1064F638	10M SRA 16V M FM5 TP(5)			CP07	0CE107BH638	100U KME 25V M FM5 TP5
	1	C878	0CE2264F638	22M SRA 16V M FM5 TP(5)			CP08	624-087J	HIGH-VOL 102PF/1KV CERAMIC
		C879	0CE1064F638	10M SRA 16V M FM5 TP(5)		1	CP09	0CQ1021N409	0.001U 100V J POLY TP
		C880	0CE1064F638	10M SRA 16V M FM5 TP(5)			CP10	0CE1087H638	1000UF SXE 25V M FM5 TP5
		C881	0CE2264F638	22M SRA 16V M FM5 TP(5)			CP11	624-084E	HER-1320-1000-25-M SMPS RI-C
		C882	0CE4766F638	47M SMS 16V M FM5 TP5		0		624-085E	CE 1000UF/25V KME (SMPS)
		C883	0CN1030F678	0.01M 16V M Y TA26		0	1	624-083E	1000/10V KME (SMPS) CE
		C884	0CN1010K518	100P 50V KB TA26			CP12	624-084N	HER-1016-1000-10-M SMPS RI-C
	١	C885	0CN1010K518	100P 50V KB TA26			CP13	0CE1086D638	1000UF SMS 10V M FM5 TP5
		C886	0CN1010K518	100P 50V KB TA26			CP16	0CE1087H638	1000UF SXE 25V M FM5 TP5
L					_ L			1	

RUN DATE: 95.09.26

									HUN DATE : 95.09.20
s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
$\vdash$	-	0047	624-084E	HER-1320-1000-25-M SMPS RI-C			DP07	0DD207000AA	2A07 2A RECTIFIERS(T/S)DELTA
		CP17	624-085E	CE 1000UF/25V KME (SMPS)			DP08	0DD140000BA	FMBG14L SANKEN
1	OR	CP17	0CE1076K638	100M SMS 50V M FM5 TP(5)			DP09	0DD120000BC	FMPG12S SANKEN
1 1	ı	CP20	•	1000UF SMS 10V M FM5 TP5	ŀ		DP10	0DD010009AC	EU01W(R-FORM) TP SANKEN
		CP21	0CE1086D638	47M SMS 50V M FM5 TP			DP11	0DD010009AC	EU01W(R-FORM) TP SANKEN
		CP22	0CE4766K638				DP12	0DD010009AC	EU01W(R-FORM) TP SANKEN
		CP23	0CC2210K405	220P 50V J SL TP	-		DITE	ODDOTOCOCAC	Looming to only
		CP27	0CQ2731N409	0.027U 100V J POLY TP				DISPL	AY TUBE
1		CP32	0CE4766K638	47M SMS 50V M FM5 TP	L			5,0, 2,	
		CP36	624-086B	AC-CON 103/400V,Z,NU(N/K)		Τ	DG601	514-031A	13BT-133GK DD1 FUTABA
9		CP38	624-066A	AC CON 220PF/400V,B,AA(S/S)			LM601	514-505C	LEVEL METER KI-212G2(15MM)ROHM
		CP39	624-066A	AC CON 220PF/400V,B,AA(S/S)	$\vdash$			DEL /	
,			DI	ODE	_	_	T =		Y LINE
		BDP01	0DD160000DA	S1WBA60(1A 600V) SHIDENKEN	$\vdash$		DL3A0	617-011A	MS-31PC (KSS)
		D001	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM 1SS131 DETECT,SW(26MM)TP ROHM				F	USE
		D002 D202	0DD131009AA 0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	H	Т	FP01	585-011C	T 1.6A 250V S506
		D203	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	-		1,,0,	1	
	1	D204	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM				FII	_TER [
		D205	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	_	_		· · · · · · · · · · · · · · · · · · ·	
		D206	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM		1	FL301	616-064D	L/C CL00047A 1.5M LPF S/S
1		D207	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	1		FL302	616-053A	HPF 1.4MHZ (DAE SHIN)
1		D208	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			FL3A0	616-234C	A285TCHS-K5315 DD1P K-TOKO
1		D209	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH			FL3A1	616-234A	A285TCHS-K5305 CAN-COIL DD1P
1		D211	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			FL3A2	616-234B	A285TCHS-K5306 DD1P K-TOKO
1		D212	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH			FL3A4	616-126G	L/C BPF CB0067 4.43BPF S/S
1		D213	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH			FL401	616-405B	F-K5D9568A 1.8M SAMMI C900P
1		D219	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			FL402	616-405A	F-K5D9567A 1.4M SAMMI C900P
1		D220	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	1	1	FL403	616-069C	LPF 12KHZ(JH-1058) SAMMI
		D228	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			FL4A0	616-167A	1.7MBPF TH328BTLS-K5318 K-TOKO
1		D230	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			FL4A1	616-154A	1.5BPF TH328BTLS-K5317K-TOKO D
		D233	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	-		FL701	616-069C	LPF 12KHZ(JH-1058) SAMMI
1		D234	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM		1	FL702	616-069C	LPF 12KHZ(JH-1058) SAMMI
		D235	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH			FLP01	616-145A	LINE FILTER SQE TYPE 33MH(BUJ)
		D301	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM	- 1		Z701	616-098A	SAW OFWG3203 SIEMENS
		D302	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM		1	Z703	616-036E	TRAP TPS5.74MB MURATA
		D307	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	- 1		Z704	616-036B	TRAP TPS5.5MB MURA
1		D308	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	- 1		Z705	616-714A	MKT40MA100P MURATA
			0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH	-		2,00	10.011	
1		D309		1SS131 DETECT,SW(26MM)TP ROHM					IC
		D3A0	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM					
1		D3A1	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			IC001	01H1118191A	HA118191NT PRE-AMP DIP
	1	D3A2	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			IC201	01MI381850Q	M38185ME-134FP(SY+TI) R-DV10S
1		D3A3	0DD131009AA				IC202	0INA241600A	NM24C16N(EEPROM.16K) OC3600
		D401	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			IC203	0IMT523000B	PST-523G/T(3.3V) LOW
	1	D402	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			IC204	01H1497560A	HD49756NT(SERVO)
		D403	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			IC205	0IRH704800A	BA7048N(ENVLOPE-DETECT)
	1	D405	0DD131009AA	1SS131 DETECT,SW(26MM)TP ROHM			IC206	0IGS744500A	GL7445 (MOTOR DRIV-1CH) GSS
		D501	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH			IC207	0ISM564900A	SDA5649 (VPS+PDC)
1		D502	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH			IC301	01HI118201A	HA118201CF Y/C PAL/MULTI
1		D503	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH			IC303	0IKK746063A	MSM7460-63RS CCD(PAL) DIP
1		D504	0DD400309AB				IC3A0	0IHI118172A	HA118172F(Y/C 8MM)HARD TRAY
et l		D505	0DD400309AB				IC3A0	0ISO120300A	CXA1203M(8MM PAL JOG)SOP-24P-L
1		D506	0DD400309AB				IC3A1	01KK740300A	MSM7403MS(2H CCD)FLAT KINSEKI
-		D507	0DD400309AB					0IRH779000A	BA7790LS(AUDIO NORMAL)
		D508	0DD131009AA				IC401	0ITO881300A	TA8813AN(HI-FI MAIN PAL)
1		D703	0DD400309AB				IC402	0ISG642000A	TEA6420 S/W IC DIP
1		D801	0DD131009AA	and the state of t			IC403		LA7222 (1280 AUDIO)
		D902	0DD193009AA			1	IC404	0ISA722200A	
		DP03	0DD010009AD				IC4A0	01H1118276A	HA118276F CXP80724-345Q(SY+SE)R-DV10S
1		DP04	0DD010009AC		H		IC501	0 \$0807240\$	
-		DP05	0DD010009AC	EU01W(R-FORM) TP SANKEN			IC502	0IMT523000C	PST-523D/T
- 1	- [	DP06	0DD400000AH	and the second of the second o			IC503	0ISA183600A	LB1836M-TEL LOADING MOT 1K/TP

				<del></del>	-	_			RUN DATE : 95.09.20
S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	A	L LOCA.NO	PART NO(GS)	SPECIFICATION
l	l	IC504	0ISO112700A	CXA1127M-T6 CAP-M DRIV 30SOP			L317	0LA0152K018	15M K 2.3X3.4 L5 TP
		IC505	01GS740600A	GL7406 (MOTOR DRIV) TAPING	11		L318	0LA0102K018	10M K 2.3X3.4 L5 TP
1		IC506	0ISO151200A	CXA1512M			L319	0LR1000K035	100M K 6X6 L5 TP
		IC507	01GS358000E	GL358D (T&R) OP AMP 2.5K/TP		1	L321	0LA2200K018	220M K 2.3X3.4 L5 TP
		IC508	0IEX108230A	XR-10823(ATF)QFP32	11		L322	0LA0392K018	39M K 2.3X3.4 L5 TP
		IC601	OINE163110A	UPD16311GC-AB6 FIP DRIV 52PQFP	1 1		L325	0LR1000K035	100M K 6X6 L5 TP
1 1		IC602	0IRH152180B	BA15218(HEAD-PHONE AMP)DIP			L326	0LA0272K018	27M K 2.3X3.4 L5 TP
		IC701	01PH980000A	TDA9800 VIF PLL DEM & FM DET			L328	0LA0472K018	47M K 2.3X3.4 L5 TP
		IC702	0ITF444500B	TDA4445B(SIF+AM DET) OC3600	11		L329	0LA0102K018	10M K 2.3X3.4 L5 TP
1 1		IC704	011T341000A	MSP3410(NICAM+G2) OC3600	11		L331	0LA0682K018	•
1 1		IC801	0IMI350100M	M35010-110SP(OSD)BF900P/3600H			L333	0LA0002K018	68M K 2.3X3.4 L5 TP
		IC802	01SG640000A	STV6400 S/W IC DIP	11	1	L334	0LR1000K035	12M K 2.3X3.4 L5 TP
		IC803	0IJR222900A	NJM2229S SYNC SEPA (SIP PACK)		1	L3A0		100M K6X6 L5 TP
		IC805	0IJR224900A	NJM2249L S/W (8 PIN SIP)	11	1		0LR1000K035	100M K 6X6 L5 TP
lí		IC806	01GS324000A	GL324 (QUAD PUPLE OP AMP)	11		L3A1	0LR0332K035	33M K 6X6 L5 TP
	1	IC901					L3A2	0LA1800K018	180M K 2.3X3.4 L5 TP
		IC902	01HI118019A	HA118019NT(PRE-AMP 4HD)			L3A3	0LA0102K018	10M K 2.3X3.4 L5 TP
			01RH774000A	BA7740S (PRE-AMP HI-FI)	11	1	L3A4	0LA0222K018	22M K 2.3X3.4 L5 TP
		ICP01	0ISK670700B	STR/S6707(LF.953) 9P (R5,R6)	1 1		L3A5	0LR1000K035	100M K 6X6 L5 TP
		ICP03	01KE431000A	KIA431			L3A6	0LR1000K035	100M K 6X6 L5 TP
			17	ACK			L3A7	0LR1000K035	100M K 6X6 L5 TP
			J.	ACK		1	L3A8	0LR1000K035	100M K 6X6 L5 TP
	T	JK601	572-055A	MIC HSJ1406-01-010	11		L3A9	0LA0152K018	15M K 2.3X3.4 L5 TP
		O/1007	012-000A	1000 11301400-01-010	11		L3B0	0LR1000K035	100M K 6X6 L5 TP
			C	OIL		1	L3B1	0LR1000K035	100M K 6X6 L5 TP
				VIII	] ]		L3B2	0LA0682K018	68M K 2.3X3.4 L5 TP
	- }	BD701	636-010F	BEAD,BL01R1-A62T5,MURATA TAPIN			L3B3	0LR3300K035	330M K 6X6 L5 TP
		BD801	0LA0101K018	1.0M K 2.3X3.4 L5 TP			L3B4	0LR8200K035	820M K 6X6 L5 TP
- 1	- 1	BD802	636-010F	BEAD,BL01R1-A62T5,MURATA TAPIN	1 1		L401	0LR1000K035	100M K 6X6 L5 TP
ì		L001	0LR1000K035	100M K 6X6 L5 TP	1 1		L402	0LR1000K035	100M K 6X6 L5 TP
.		L002	0LR1000K035	100M K 6X6 L5 TP	} ]		L403	0LR1000K035	100M K 6X6 L5 TP
- 1		L003	0LR8200K035	820M K 6X6 L5 TP	1 1		L404	0LR1000K035	100M K 6X6 L5 TP
		L004	0LR3300K035	330M K 6X6 L5 TP	1 1	1	L405	0LR1000K035	100M K 6X6 L5 TP
		L005	0LA1800K018	180M K 2.3X3.4 L5 TP	1 1	1	L406	0LR1502J045	0.015H J 6X7 L5 TP
Ì	- 1	L006	0LA0222K018		1 1		L407	0LR1000K035	100M K 6X6 L5 TP
- {		L007	0LA0392K018	22M K 2.3X3.4 L5 TP			L408	0LR1000K035	100M K 6X6 L5 TP
- 1	- }	L008	0LA0332K018	39M K 2.3X3.4 L5 TP			L409	0LR1000K035	100M K 6X6 L5 TP
		L009	0LA0222K018	33M K 2.3X3.4 L5 TP 22M K 2.3X3.4 L5 TP	1 1		L4A0	0LR1000K035	100M K 6X6 L5 TP
1			0LR1000K035		11		L501	0LR1000K035	100M K 6X6 L5 TP
- 1	- 1	L011		100M K 6X6 L5 TP	1 1	1	L502	0LR1000K035	100M K 6X6 L5 TP
- 1	- 1	L012	0LA0102K018	10M K 2.3X3.4 L5 TP			L503	0LR1000K035	100M K 6X6 L5 TP
- 1	- }		0LA0332K018	33M K 2.3X3.4 L5 TP		1	L504	0LR1000K035	100M K 6X6 L5 TP
J			0LA0222K018 0LA0222K018	22M K 2.3X3.4 L5 TP			L505	0LR1000K035	100M K 6X6 L5 TP
				22M K 2.3X3.4 L5 TP			L506	0LR1000K035	100M K 6X6 L5 TP
			0LR1000K035	100M K 6X6 L5 TP		1	L507	0LR1000K035	100M K 6X6 L5 TP
			0LR1000K035	100M K 6X6 L5 TP			L508	0LR1000K035	100M K 6X6 L5 TP
-		,	0LR1200K035	120M K 6X6 L5 TP		ĺ	L509	0LA1800K018	
1			0LR1000K035	100M K 6X6 L5 TP			L510	0LR8200J025	180M K 2.3X3.4 L5 TP 820UH 5% 4X5 TR5
			0LR1000K035	100M K 6X6 L5 TP			L510	0LR1000K035	
			0LR1000K035	100M K 6X6 L5 TP			1		100M K 6X6 L5 TP
		1	0LR1000K035	100M K 6X6 L5 TP			L512	0LR1000K035	100M K 6X6 L5 TP
			0LA0472K018	47M K 2.3X3.4 L5 TP			L601	0LA1000K018	100M K 2.3X3.4 L5 TP
				100M K 6X6 L5 TP			L704	0LA0121K018	1.2M K 2.3X3.4 L5 TP
				100M K 6X6 L5 TP			L705	0LA0102K018	10M K 2.3X3.4 L5 TP
			0LR1000K035	100M K 6X6 L5 TP		1	L706	0LR1000K035	100M K 6X6 L5 TP
			0LA1500K018	150M K 2.3X3.4 L5 TP			L707	0LA0332K018	33M K 2.3X3.4 L5 TP
			0LR1000K035	100M K 6X6 L5 TP			L708	0LR1000K035	100M K 6X6 L5 TP
		L308	0LR1000K035	100M K 6X6 L5 TP		1	L709	0LR1000K035	100M K 6X6 L5 TP
		L311	0LR1000K035	100M K 6X6 L5 TP			L714	0LR1000K035	100M K 6X6 L5 TP
1				68M K 2,3X3.4 L5 TP		1	L715	0LR1000K035	100M K 6X6 L5 TP
	ł	L313	0LR1000K035	100M K 6X6 L5 TP			L716	0LR1000K035	100M K 6X6 L5 TP
				82M K 2.3X3.4 L5 TP			L717	0LR1000K035	100M K 6X6 L5 TP
			and the second second	100M K 6X6 L5 TP			L718	0LR1000K035	100M K 6X6 L5 TP
				390M K 6X6 L5 TP			L719	0LR1000K035	100M K 6X6 L5 TP
									to the second second second second second second second second second second second second second second second

RUN DATE: 95.09.26

	L720 L721 L801 L803 L804 L805 L806 L807 L808	0LR1000K035 0LR1000K035 0LR1000K035 0LR1000K035 0LR1000K035 0LA0332K018	100M K 6X6 L5 TP 100M K 6X6 L5 TP 100M K 6X6 L5 TP 100M K 6X6 L5 TP			Q002 Q003	0TR319909AF	KTC3199-BL MINI TP KEC	
	L801 L803 L804 L805 L806 L807	0LR1000K035 0LR1000K035 0LR1000K035 0LA0332K018	100M K 6X6 L5 TP			0003	OTD4000004E	LODGE COST CONTRACTOR	
	L803 L804 L805 L806 L807	0LR1000K035 0LR1000K035 0LA0332K018	100M K 6X6 L5 TP 100M K 6X6 L5 TP	1 1		QUUU	0TR103009AE	KRC103M-TP (KRC1203) KEC	
	L804 L805 L806 L807	0LR1000K035 0LA0332K018	100M K 6X6 L5 TP			Q005	0TR103009AE	KRC103M-TP (KRC1203) KEC	- 1
	L805 L806 L807	0LA0332K018				Q006	0TR126709AC	KTA1267-GR MINITP KEC	
	L806 L807		100M K 6X6 L5 TP			Q007	0TR319909AF	KTC3199-BL MINI TP KEC	
	L807	OL A D4 DOLZD4 D	33M K 2.3X3.4 L5 TP			Q008	0TR319909AF	KTC3199-BL MINI TP KEC	
		0LA0122K018	12M K 2.3X3.4 L5 TP			Q009	0TR319909AF	KTC3199-BL MINI TP KEC	
	L808	0LR1000K035	100M K 6X6 L5 TP			Q010	0TR319709AC	KTC3197 (KTC388A) TP KEC	
		0LA1000K018	100M K 2.3X3.4 L5 TP			Q011	0TR319909AF	KTC3199-BL MINI TP KEC	
	L809	0LA1000K018	100M K 2.3X3.4 L5 TP			Q012	0TR126709AC	KTA1267-GR MINI TP KEC	I
	L810	0LA1000K018	100M K 2,3X3.4 L5 TP			Q013	0TR319909AF	KTC3199-BL MINI TP KEC	
	L811	0LA1000K018	100M K 2.3X3.4 L5 TP			Q014	0TR126709AC	KTA1267-GR MINI TP KEC	- 1
	L812	0LA1000K018	100M K 2.3X3.4 L5 TP			Q015	0TR103009AE	KRC103M-TP (KRC1203) KEC	.
- 1	L813	0LA1000K018	100M K 2.3X3.4 L5 TP			Q201	0TR103009AE	KRC103M-TP (KRC1203) KEC	
	L814	0LA1000K018	100M K 2.3X3.4 L5 TP			Q202 Q203	0TR103009AE 0TR103009AE	KRC103M-TP (KRC1203) KEC	- 1
	L815	0LA1000K018	100M K 2.3X3.4 L5 TP 100M K 6X6 L5 TP			Q203	0TR319809AC	KRC103M-TP (KRC1203) KEC	
	L816	0LR1000K035	100M K 6X6 L5 TP			Q204 Q205	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC KTC3198-TP-BL (KTC1815)KEC	
1 1	L817	0LR1000K035				-,	0TR103009AE		
	L818	0LA0222K018	22M K 2.3X3.4 L5 TP			Q206 Q207	0TR103009AE	KRC103M-TP (KRC1203) KEC	
	L819	0LA0222K018	22M K 2.3X3.4 L5 TP			Q207 Q208	0TR103009AE	KTA1273-TP-Y (KTA966A)KEC KRC103M-TP (KRC1203) KEC	I
	L820 L8C1	0LA0222K018 0LA0101K018	22M K 2.3X3.4 L5 TP 1.0M K 2.3X3.4 L5 TP			Q209	0TR103009AE	KRA103M-TP (KRA2203) KEC	
1 1	L901	0LR1000K035	100M K 6X6 L5 TP			Q210	0TR103009AF	KRA103M-TP (KRA2203) KEC	
	L901	0LA0681K018	6.8M K 2.3X3.4 L5 TP			Q211	0TR103009AF	KRA103M-TP (KRA2203) KEC	
	L902	0LA0181K018	1.8M K 2.3X3.4 L5 TP		1	Q212	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	J
	L904	0LR1000K035	100M K 6X6 L5 TP			Q213	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	- 1
1 1	L905	0LR1000K035	100M K 6X6 L5 TP			Q215	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC	
	L906	0LR1000K035	100M K 6X6 L5 TP			Q217	0TR103009AE	KRC103M-TP (KRC1203) KEC	
	L907	0LR3300K035	330M K 6X6 L5 TP			Q218	0TR103009AE	KRC103M-TP (KRC1203) KEC	- 1
	LP01	636-004C	BEAD CORE BFS3550R2FD8,R T/P			Q219	0TR103009AE	KRC103M-TP (KRC1203) KEC	١.
	LP02	636-004C	BEAD CORE BFS3550R2FD8,R T/P			Q220	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC	
	LP03	633-088A	SC-20M CHOKE,COIL			Q221	0TR103009AE	KRC103M-TP (KRC1203) KEC	- 1
1	LP04	633-088A	SC-20M CHOKE,COIL	-	1	Q222	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC	
	LP06	633-088A	SC-20M CHOKE,COIL			Q223	0TR103009AE	KRC103M-TP (KRC1203) KEC	
] ]	T401	633-032C	BIAS-OSC(MISUMI) 70KHZ			Q224	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC	
	T402	633-032C	BIAS-OSC(MISUMI) 70KHZ			Q301	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	
	T701	633-085A	V-COIL 2920N-K5592Z 77.8 TOKO			Q302	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	
1 [	T702	633-021C	PIF(D/S)			Q304	0TR126709AC	KTA1267-GR MINI TP KEC	
		1	ED			Q305	0TR103009AE	KRC103M-TP (KRC1203) KEC	1
		L	.ED			Q306	0TR126709AC	KTA1267-GR MINI TP KEC	
	LD601	0DL112000AK	DL-11S2GNS(SU,G,03,SM3411) KOC			Q307	0TR103009AE	KRC103M-TP (KRC1203) KEC	
li	LD602	0DL112000AK	DL-11S2GNS(SU,G,03,SM3411) KOC	1 1		Q308	0TR126709AC 0TR319809AC	KTA1267-GR MINI TP KEC	
1	LD6A1	0DL112000AK	DL-11S2GNS(SU,G,03,SM3411) KOC			Q309 Q310	0TR103009AC	KTC3198-TP-BL (KTC1815)KEC KRC103M-TP (KRC1203) KEC	
	LD6A2	0DL112000AK	DL-11S2GNS(SU,G,03,SM3411) KOC			Q310 Q311	0TR103009AE	KRC103M-TP (KRC1203) KEC	
						Q312	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	
l		MODU	JLATOR			Q313	0TR126709AC	KTA1267-GR MINI TP KEC	
-	140704	F00 0004	MCDa Honego Dat Dio Nic 477			Q315	0TR103009AE	KRC103M-TP (KRC1203) KEC	
	MD701	592-808A	MCB8-UG3630 PAL B/G WO ATT			Q320	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	
	CI	BCHIT BOA	ARD ASSEMBLY			Q323	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	
	OI.	NCON DOA	AND ASSEMBLI			Q324	0TR103009AF	KRA103M-TP (KRA2203) KEC	
	PBIO0	6871R-0252A	I/O BOARD (2NDDD1S)			Q325	0TR103009AE	KRC103M-TP (KRC1203) KEC	
	PBJT0	515-908B	JUNCTION 2 (G/S)			Q326	0TR126709AC	KTA1267-GR MINI TP KEC	
	PBM00	6871R-0245D	VHS MAIN (DV13P 3GL1)			Q327	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	
	PBT00	6871R-0248A	TIMER 2NDDD1S			Q328	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC	
<del></del>			L.			Q329	0TR103009AE	KRC103M-TP (KRC1203) KEC	
	TRANSFORMER					Q3A0	0TR319909AF	KTC3199-BL MINI TP KEC	
			Lawrence services			Q3A1	0TR103009AE	KRC103M-TP (KRC1203) KEC	
	PTP01	642-019A	S/W TRANS EER3530(SUPER PAL)			Q3A2	0TR103009AE	KRC103M-TP (KRC1203) KEC	
		TRAN	ISISTOR			Q3A4	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC	
		IDAN				Q3A5	0TR103009AE	KRC103M-TP (KRC1203) KEC	
	Q001	0TR319909AF	KTC3199-BL MINI TP KEC			Q3A7	0TR103009AE	KRC103M-TP (KRC1203) KEC	

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		Q3A8	0TR103009AE	KRC103M-TP (KRC1203) KEC
l		Q3A9	0TR103009AF	KRA103M-TP (KRA2203) KEC
		Q3B0	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q3B1	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q3B2	0TR319909AF	KTC3199-BL MINI TP KEC
		Q3B3	0TR126709AC	KTA1267-GR MINI TP KEC
		Q3B4	0TR319909AF	KTC3199-BL MINI TP KEC
		Q3E1	0TR319909AF	KTC3199-BL MINI TP KEC
		Q401	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q402	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
	1	Q403	0TR319809AC 0TR126709AC	KTC3198-TP-BL (KTC1815)KEC KTA1267-GR MINITP KEC
l		Q404 Q405	01H126709AC 0TR126709AC	KTA1267-GH MINI TP KEC
		Q405 Q406	0TR126709AC 0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q406 Q407	01H103009AE 0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q407 Q408	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
1		Q409	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q410	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q410	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
	1	Q412	0TR103009AE	KRC103M-TP (KRC1203) KEC
l		Q413	0TR103009AE	KRC103M-TP (KRC1203) KEC
١		Q414	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
1		Q415	0TR126709AC	KTA1267-GR MINI TP KEC
		Q416	0TR126709AC	KTA1267-GR MINI TP KEC
		Q417	0TR126709AC	KTA1267-GR MINI TP KEC
		Q418	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
1		Q419	0TR126709AC	KTA1267-GR MINI TP KEC
1		Q420	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
		Q421	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q4A0	0TR319909AF	KTC3199-BL MINI TP KEC
		Q4A1	0TR319909AF	KTC3199-BL MINI TP KEC
		Q4A2	0TR319909AF	KTC3199-BL MINI TP KEC KTC3199-BL MINI TP KEC
	ł	Q4A3 Q4A4	0TR319909AF 0TR103009AE	KRC103M-TP (KRC1203) KEC
1	1	Q4A4 Q4A5	0TR103009AE	KRA103M-TP (KRA2203) KEC
1		Q4A5 Q4A6	0TR103009AF	KRC103M-TP (KRC1203) KEC
1	1	Q502	0TR223609AB	KTC2236A-Y=KTC3205Y TP KEC
		Q502 Q503	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
	1	Q504	0TR205800AA	KTD2058-0 KEC
		Q505	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q506	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
		Q507	0TR126609AE	KTA1266-GR,TP(KTA1015),KEC
1		Q508	0TR205800AA	KTD2058-0 KEC
		Q509	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q510	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q601	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
1	1	Q6B1	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
1		Q701	0TR319709AC	KTC3197 (KTC388A) TP KEC
		Q703	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
1		Q709	0TR103009AE	KRC103M-TP (KRC1203) KEC
1	1	Q710 Q712	0TR126709AC	KTA1267-GR MINI TP KEC KTC3205-TP-Y (KTC2236A)KEC
		Q712 Q801	0TR320509AB 0TR126709AC	KTC3205-1P-Y (KTC2236A)KEC
1	1.	Q801 Q802	01H126709AC 0TR103009AE	KTA1267-GH MINITP KEC KRC103M-TP (KRC1203) KEC
1	1	Q802 Q803	0TR103009AE	KRC103M-TP (KRC1203) KEC
	1	Q803 Q804	0TR126709AC	KTA1267-GR MINI TP KEC
1		Q804 Q805	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q806	0TR319909AF	KTC3199-BL MINI TP KEC
1	•	Q807	0TR319909AF	KTC3199-BL MINI TP KEC
1		Q808	0TR103009AE	KRC103M-TP (KRC1203) KEC
1		Q809	0TR126709AC	KTA1267-GR MINI TP KEC
1		Q810	0TR319909AF	KTC3199-BL MINI TP KEC
	上	1		

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		Q811	0TR319909AF	KTC3199-BL MINI TP KEC
		Q812	0TR319909AF	KTC3199-BL MINI TP KEC
		Q814	0TR319909AF	KTC3199-BL MINI TP KEC
		Q902	0TR103009AA	CHIP KRC103S-T1(NC)22-22 KEC
		Q903	0TR103009AA	CHIP KRC103S-T1(NC)22-22 KEC
		Q904	0TR150409AC	KTA1504-GR-T1(ASG) CHIP KEC
		Q905	0TR150409AC	KTA1504-GR-T1(ASG) CHIP KEC
		Q906	0TR103009AA	CHIP KRC103S-T1(NC)22-22 KEC
		Q907	0TR387609AA	CHIP KTC3876-0-T1 (WO) KEC
		Q908	0TR103009AA	CHIP KRC103S-T1(NC)22-22 KEC
			SE	NSOR
		ICP04	657-060C	CQY80NG PHOTO-COUPLER TELEFUN

CAUTION: The \* marks in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. Before replacing any of these components, read carefully the SAFETY PRECAUTIONS and SERVICING PRECAUTIONS in the manual. Do not degrade the safety of the unit through improper servicing.

#### **Tolerance**

Symbol	С	J	K	М	N	Z	P	Α
%	±2	±5	±10	±20	±30	+80 -20	+100 -10	+100 -10

CC, CJ, CK: Capacitor, Ceramic CE: Capacitor, Electrolytic CQ: Capacitor, Polyester

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
			RES	ISTOR			R207 R208	0RD1002F608 0RD6802F608	10K 1/6W 5 TA26 68K 1/6W 5 TA26
		R001	0RD0752F608	75 1/6W 5 TA26			R209	0RD3301F608	3.3K 1/6W 5 TA26
		R002	0RD0752F608	75 1/6W 5 TA26			R210	0RD1002F608	10K 1/6W 5 TA26
		R003	0RD0562F608	56 1/6W 5 TA26			R211	0RD3302F608	33K 1/6W 5 TA26
		R004	0RD3902F608	39K 1/6W 5 TA26	1.1	1	R212	0RD1002F608	10K 1/6W 5 TA26
		R006	0RD8200F608	820 1/6W 5 TA26	11		R213	0RD1501F608	1.5K 1/6W 5 TA26
1		R008	0RD5600F608	560 1/6W 5 TA26	11		R214	0RD1502F608	15K 1/6W 5 TA26
	,	R009	0RD6800F608	680 1/6W 5 TA26			R215	0RD6801F608	6.8K 1/6W 5 TA26
		R011	0RD1002F608	10K 1/6W 5 TA26	11		R216	0RD3901F608	3.9K 1/6W 5 TA26
		R012	0RD2702F608	27K 1/6W 5 TA26			R217	0RD2703F608	270K 1/6W 5 TA26
1		R013	0RD8200F608	820 1/6W 5 TA26			R218	0RD6802F608	68K 1/6W 5 TA26
	1	R014	0RD2202F608	22K 1/6W 5 TA26			R219	0RD2702F608	27K 1/6W 5 TA26
		R015	0RD2202F608	22K 1/6W 5 TA26			R220	0RD8203F608	820K 1/6W 5 TA26
		R016	0RD4700F608	470 1/6W 5 TA26	11		R221	0RD5603F608	560K 1/6W 5 TA26
		B017	0RD1501F608	1.5K 1/6W 5 TA26	11		R222	0RD8201F608	8.2K 1/6W 5 TA26
[ ·		R018	0RD4700F608	470 1/6W 5 TA26	11		R223	0RD1501F608	1.5K 1/6W 5 TA26
		R019	ORD6800F608	680 1/6W 5 TA26			R224	0RD1503F608	150K 1/6W 5 TA26
		R020	0RD2200F608	220 1/6W 5 TA26			R225	0RD1503F608	150K 1/6W 5 TA26
		R021	0RD8200F608	820 1/6W 5 TA26			R226	0RD2203F608	220K 1/6W 5 TA26
		R023	0RD1501F608	1.5K 1/6W 5 TA26		1	R227	0RD6802F608	68K 1/6W 5 TA26
		R024	0RD3301F608	3.3K 1/6W 5 TA26			R228	0RD6802F608	68K 1/6W 5 TA26
1		R025	0RD1801F608	1.8K 1/6W 5 TA26			R229	0RD4701F608	4.7K 1/6W 5 TA26
		R026	0RD1001F608	1.0K 1/6W 5 TA26			R230	0RD4701F608	4.7K 1/6W 5 TA26
		R027	0RD8200F608	820 1/6W 5 TA26			R231	0RD5601F608	5.6K 1/6W 5 TA26
		R028	0RD2202F608	22K 1/6W 5 TA26	11		R232	0RD0101F608	1.0 1/6W 5 TA26
1		R029	0RD2202F608	22K 1/6W 5 TA26	11		R233	0RD5601F608	5.6K 1/6W 5 TA26
		R030	0RD2200F608	220 1/6W 5 TA26			R234	0RD3902F608	39K 1/6W 5 TA26
		R032	0RD1201F608	1.2K 1/6W 5 TA26			R235	0RD2701F608	2.7K 1/6W 5 TA26
		R033	0RD6800F608	680 1/6W 5 TA26		1	R236	0RD6803F608	680K 1/6W 5 TA26
		R034	0RD2701F608	2.7K 1/6W 5 TA26	11		R237	0RD2702F608	27K 1/6W 5 TA26
i		R035	0RD1002F608	10K 1/6W 5 TA26			R238	0RD4702F608	47K 1/6W 5 TA26
1		R036	0RD1001F608	1.0K 1/6W 5 TA26	11		R239	0RD8201F608	8.2K 1/6W 5 TA26
		R037	0RD4700F608	470 1/6W 5 TA26			R240	0RD1003F608	100K 1/6W 5 TA26
		R038	0RD1001F608	1.0K 1/6W 5 TA26		1	R241	0RD1503F608	150K 1/6W 5 TA26
		R039	0RD4700F608	470 1/6W 5 TA26	11	1	R242 R243	0RD8202F608	82K 1/6W 5 TA26
(		R041	0RD1001F608	1.0K 1/6W 5 TA26			R244	0RD1503F608	150K 1/6W 5 TA26
		R042	0RD5601F608	5.6K 1/6W 5 TA26			R244 R245	0RD1003F608	100K 1/6W 5 TA26
		R043	0RD8200F608	820 1/6W 5 TA26			R245	0RD0101F608 0RD1001F608	1.0 1/6W 5 TA26
		R201	0RD1001F608	1.0K 1/6W 5 TA26			R247	0RD8203F608	1.0K 1/6W 5 TA26   820K 1/6W 5 TA26
		R202	0RD4701F608	4.7K 1/6W 5 TA26			R248	0RD1202F608	12K 1/6W 5 TA26
1		R203	0RD1001F608	1.0K 1/6W 5 TA26			R249	0RD1202F608	1.2K 1/6W 5 TA26
1		R204	0RD2702F608	27K 1/6W 5 TA26		)	R250	0RD5601F608	5.6K 1/6W 5 TA26
1		R205 R206	0RD1202F608	12K 1/6W 5 TA26			R251	0RD4700F608	470 1/6W 5 TA26
1		H200	0RD1202F608	12K 1/6W 5 TA26			11231	011041001000	TIO IJUNT O IAZU

_				,		_			RUN DATE : 95.09.26
s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
1	1 1	R252	614-011B	PRW 3.3/2W 10MM FORM/BULK SUNG			R2E3	0RD6801F608	6.8K 1/6W 5 TA26
1	1 1	R253	0RD1001F608	1.0K 1/6W 5 TA26			R2E5	0RD3902F608	39K 1/6W 5 TA26
		R254	0RD2201F608	2.2K 1/6W 5 TA26			R2E8	0RD4702F608	47K 1/6W 5 TA26
1.	1 1	R255	0RD4701F608	4.7K 1/6W 5 TA26			R301	0RD4701F608	4.7K 1/6W 5 TA26
1		R256	0RD1001F608	1.0K 1/6W 5 TA26			R302	0RD3302F608	33K 1/6W 5 TA26
ſ	ŀΙ	R264	0RD2201F608	2.2K 1/6W 5 TA26	1		R303	0RD1001F608	1.0K 1/6W 5 TA26
1		R267	0RD1004F608	1.0M 1/6W 5 TA26			R304	0RD1802F608	18K 1/6W 5 TA26
ŀ		R268	0RD1003F608	100K 1/6W 5 TA26	ı		R306	0RD3302F608	33K 1/6W 5 TA26
1		R269	0RD4704F608	4.7M 1/6W 5 TA26			R307	0RD1802F608	18K 1/6W 5 TA26
		R270	0RD1002F608	10K 1/6W 5 TA26	1		R308	0RD1001F608	1.0K 1/6W 5 TA26
l		R271	0RD2201F608	2.2K 1/6W 5 TA26	1		R309	0RD0102F608	10 1/6W 5 TA26
		R272	0RD4701F608	4.7K 1/6W 5 TA26			R311	0RD2701F608	2.7K 1/6W 5 TA26
1	1 1	R273	0RD1502F608	15K 1/6W 5 TA26			R312	0RD6801F608	6.8K 1/6W 5 TA26
1		R274	0RD4701F608	4.7K 1/6W 5 TA26	1		R313	0RD2200F608	220 1/6W 5 TA26
	1 1	R275	0RD4701F608	4.7K 1/6W 5 TA26			R315	0RD4701F608	4.7K 1/6W 5 TA26
1		R276	0RD4701F608	4.7K 1/6W 5 TA26			R316	0RD1002F608	10K 1/6W 5 TA26
[	[ [	R277	0RD2702F608	27K 1/6W 5 TA26	1		R317	0RD1002F608	10K 1/6W 5 TA26
		R278	0RD2702F608	27K 1/6W 5 TA26			R318	0RD1001F608	1.0K 1/6W 5 TA26
		R279	0RD1002F608	10K 1/6W 5 TA26			R319	0RD1001F608	1.0K 1/6W 5 TA26
1		R280	0RD1002F608	10K 1/6W 5 TA26			R320	0RD4701F608	4.7K 1/6W 5 TA26
'		R281	0RD3302F608	33K 1/6W 5 TA26			R321	0RD1001F608	1.0K 1/6W 5 TA26
1		R282	0RD3302F608	33K 1/6W 5 TA26			R322	0RD7500F608	750 1/6W 5 TA26
1		R283	0RD6802F608	68K 1/6W 5 TA26			R323	0RD1001F608	1.0K 1/6W 5 TA26
l		R284	0RD2201F608	2.2K 1/6W 5 TA26			R324	0RD4702F608	47K 1/6W 5 TA26
		R285	0RD2201F608	2.2K 1/6W 5 TA26			R325	0RD4702F608	47K 1/6W 5 TA26
1		R286	0RD4701F608	4.7K 1/6W 5 TA26			R326	0RD1001F608	1.0K 1/6W 5 TA26
1		R287	0RD4701F608	4.7K 1/6W 5 TA26			R327	0RD4700F608	470 1/6W 5 TA26
		R288	0RD4701F608	4.7K 1/6W 5 TA26		1	R328	0RD1802F608	18K 1/6W 5 TA26
]		R289	0RD4700F608	470 1/6W 5 TA26			R329	0RD4701F608	4.7K 1/6W 5 TA26
		R290	0RD4701F608	4.7K 1/6W 5 TA26			R331	0RD1201F608	1.2K 1/6W 5 TA26
		R291	0RD4701F608	4.7K 1/6W 5 TA26			R332	0RD1001F608	1.0K 1/6W 5 TA26
		R292	0RD4701F608	4.7K 1/6W 5 TA26			R333	0RD5600F608	560 1/6W 5 TA26
		R293	0RD4701F608	4.7K 1/6W 5 TA26			R334	0RD1001F608	1.0K 1/6W 5 TA26
		R294	0RD4701F608	4.7K 1/6W 5 TA26			R336	0RD1200F608	120 1/6W 5 TA26
	1	R295	0RD4701F608	4.7K 1/6W 5 TA26	1	1	R337	0RD2201F608	2.2K 1/6W 5 TA26
1		R296	0RD4701F608	4.7K 1/6W 5 TA26		1	R340	0RD1501F608	1.5K 1/6W 5 TA26
		R297	0RD1001F608	1.0K 1/6W 5 TA26			R342	0RD2702F608	27K 1/6W 5 TA26
]		R298	0RD4701F608	4.7K 1/6W 5 TA26			R343	0RD1501F608	1.5K 1/6W 5 TA26
		R299	0RD1001F608	1.0K 1/6W 5 TA26			R344	0RD2001F608	2.0K 1/6W 5 TA26
		R2A1	0RD4701F608	4.7K 1/6W 5 TA26			R345	0RD8200F608	820 1/6W 5 TA26
		R2A2	0RD6802F608	68K 1/6W 5 TA26			R346	0RD1801F608	1.8K 1/6W 5 TA26
		R2A3	0RD6802F608	68K 1/6W 5 TA26			R347	0RD8202F608	82K 1/6W 5 TA26
		R2A7	0RD2201F608	2.2K 1/6W 5 TA26			R350	0RD1201F608	1.2K 1/6W 5 TA26
		R2A8	0RD4701F608	4.7K 1/6W 5 TA26			R351	0RD1802F608	18K 1/6W 5 TA26
		R2A9	0RD4701F608	4.7K 1/6W 5 TA26			R352	0RD3302F608	33K 1/6W 5 TA26
		R2B3	0RD2702F608	27K 1/6W 5 TA26			R353	0RD1002F608	10K 1/6W 5 TA26
		R2B5	0RD6802F608	68K 1/6W 5 TA26			R354	0RD1002F608	10K 1/6W 5 TA26
		R2B6	0RD6802F608	68K 1/6W 5 TA26			R355	0RD5601F608	5.6K 1/6W 5 TA26
		R2B8	0RD6802F608	68K 1/6W 5 TA26			R359	0RD1001F608	1.0K 1/6W 5 TA26
		R2B9	0RD6802F608	68K 1/6W 5 TA26			R361	0RD3901F608	3.9K 1/6W 5 TA26
		R2C3	0RD4701F608	4.7K 1/6W 5 TA26	[ ]		R362	0RD3301F608	3.3K 1/6W 5 TA26
		R2C4	0RD4701F608	4.7K 1/6W 5 TA26			R379	0RD2701F608	2.7K 1/6W 5 TA26
		R2D1	0RD1001F608	1.0K 1/6W 5 TA26			R382	0RD7500F608	750 1/6W 5 TA26
		R2D2	0RD1001F608	1.0K 1/6W 5 TA26			R383	0RD2201F608	2.2K 1/6W 5 TA26
		R2D3	0RD2702F608	27K 1/6W 5 TA26			R384	0RD2201F608	2.2K 1/6W 5 TA26
		R2D4	0RD1001F608	1.0K 1/6W 5 TA26			R385	0RD3900F608	390 1/6W 5 TA26
		R2D5	0RD1001F608	1.0K 1/6W 5 TA26			R386	0RD3900F608	390 1/6W 5 TA26
		R2D7	0RD1003F608	100K 1/6W 5 TA26		- 1	R387	0RD1001F608	1.0K 1/6W 5 TA26
		R2D8	0RD1004F608	1.0M 1/6W 5 TA26			R388	0RD5601F608	
		R2D9	0RD6801F608	6.8K 1/6W 5 TA26			R389		5.6K 1/6W 5 TA26
		R2E1	0RD1204F608	1.2M 1/6W 5 TA26			R390	0RD2201F608 0RD1001F608	2.2K 1/6W 5 TA26
		R2E2	0RD1204F608	1.2M 1/6W 5 TA26			R391	0RD5600F608	1.0K 1/6W 5 TA26 560 1/6W 5 TA26
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	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
1		R392	0RD3900F608	390 1/6W 5 TA26			R401	0RD1002F608	10K 1/6W 5 TA26
	1	R393	0RD2200F608	220 1/6W 5 TA26			R402	0RD1002F608	10K 1/6W 5 TA26
		R395	0RD1201F608	1.2K 1/6W 5 TA26			R403	0RD2702F608	27K 1/6W 5 TA26
		R396	0RD1801F608	1.8K 1/6W 5 TA26			R404	0RD1001F608	1.0K 1/6W 5 TA26
		R397	0RD4700F608	470 1/6W 5 TA26			R405	0RD8202F608	82K 1/6W 5 TA26
	1	R398	0RD8200F608	820 1/6W 5 TA26			R406	0RD2201F608	2.2K 1/6W 5 TA26
		R3A1	0RD1802F608	18K 1/6W 5 TA26			R407	0RD2202F608	22K 1/6W 5 TA26
		R3A2	0RD1802F608	18K 1/6W 5 TA26			R408	0RD2203F608	220K 1/6W 5 TA26
	1	R3A3	0RD4701F608	4.7K 1/6W 5 TA26	} }		R409	0RD1201F608	1.2K 1/6W 5 TA26
:1		R3A4	0RD1501F608	1.5K 1/6W 5 TA26	1 1		R40A	0RD1201F608	1.2K 1/6W 5 TA26
1	1	R3A5	0RD1001F608	1.0K 1/6W 5 TA26			R40B R410	0RD1001F608	1.0K 1/6W 5 TA26
1		R3A6	0RD1001F608	1.0K 1/6W 5 TA26			R411	0RD1001F608 0RD4700F608	1.0K 1/6W 5 TA26 470 1/6W 5 TA26
à		R3A7	0RD1001F608 0RD6802F608	1.0K 1/6W 5 TA26 68K 1/6W 5 TA26	11		R412	0RD1001F608	1.0K 1/6W 5 TA26
		R3A8 R3A9	0RD6802F608	68K 1/6W 5 TA26	1 1		R413	0RD1001F608	1.0K 1/6W 5 TA26
		R3B0	0RD6802F608	68K 1/6W 5 TA26			R414	0RD1201F608	1.2K 1/6W 5 TA26
		R3B1	0RD3302F608	33K 1/6W 5 TA26	1 1		R415	0RD2203F608	220K 1/6W 5 TA26
		R3B2	0RD2700F608	270 1/6W 5 TA26			R416	0RD2202F608	22K 1/6W 5 TA26
		R3B3	0RD1001F608	1.0K 1/6W 5 TA26			R417	0RD2702F608	27K 1/6W 5 TA26
Į		R3B4	0RD1004F608	1.0M 1/6W 5 TA26			R418	0RD1502F608	15K 1/6W 5 TA26
		R3B5	0RD4700F608	470 1/6W 5 TA26			R419	0RD3303F608	330K 1/6W 5 TA26
		R3B6	0RD2700F608	270 1/6W 5 TA26	1 1		R420	0RD1502F608	15K 1/6W 5 TA26
•	1	R3B7	0RD1802F608	18K 1/6W 5 TA26			R421	0RD1002F608	10K 1/6W 5 TA26
į		R3B8	0RD1802F608	18K 1/6W 5 TA26			R422	0RD1001F608	1.0K 1/6W 5 TA26
	1	R3B9	0RD3302F608	33K 1/6W 5 TA26		1	B423	0RD3901F608	3,9K 1/6W 5 TA26
1	1	R3C0	0RD4701F608	4.7K 1/6W 5 TA26			R424	0RD1001F608	1.0K 1/6W 5 TA26
	1	R3C1	0RD4701F608	4.7K 1/6W 5 TA26			R425	0RD3901F608	3.9K 1/6W 5 TA26
) .	1	R3C2	0RD4701F608	4.7K 1/6W 5 TA26	11		R426	0RD1002F608	10K 1/6W 5 TA26
	Ì	R3C3	0RD2201F608	2.2K 1/6W 5 TA26			R427	0RD2201F608	2.2K 1/6W 5 TA26
	1	R3C4	0RD1001F608	1.0K 1/6W 5 TA26			R428	0RD2200F608	220 1/6W 5 TA26
ĺ	1	R3C6	0RD2201F608	2.2K 1/6W 5 TA26		1	R429	0RD2200F608	220 1/6W 5 TA26
1		R3C7	0RD2201F608	2.2K 1/6W 5 TA26		1	R430	0RD2201F608	2.2K 1/6W 5 TA26
ł		R3C9	0RD1002F608	10K 1/6W 5 TA26			R431	0RD2202F608	22K 1/6W 5 TA26
1		R3E0	0RD5600F608	560 1/6W 5 TA26			R432	0RD1802F608	18K 1/6W 5 TA26
	1	R3E1	0RD1002F608	10K 1/6W 5 TA26			R433	0RD2201F608	2.2K 1/6W 5 TA26
1	1	R3E2	0RD4701F608	4.7K 1/6W 5 TA26		1	R434	0RD2202F608	22K 1/6W 5 TA26
]	1	R3E3	0RD3302F608	33K 1/6W 5 TA26	11		R435	0RD2202F608	22K 1/6W 5 TA26
	1	R3E4	0RD1003F608	100K 1/6W 5 TA26	11		R436	0RD5601F608	5.6K 1/6W 5 TA26
1	[	R3E5	0RD2203F608	220K 1/6W 5 TA26	11		R437	0RD6800F608	680 1/6W 5 TA26 470K 1/6W 5 TA26
1	1	R3E6	0RD4703F608	470K 1/6W 5 TA26			R438 R439	0RD4703F608 0RD2201F608	2.2K 1/6W 5 TA26
		R3E7 R3E8	0RD2201F608 0RD4700F608	2.2K 1/6W 5 TA26 470 1/6W 5 TA26		1	R440	0RD1802F608	18K 1/6W 5 TA26
l		R3E9	0RD1003F608	1			R441	0RD2201F608	2.2K 1/6W 5 TA26
		R3F0	0RD1003F608	100K1/6W 5 TA26 100K1/6W 5 TA26			R442	0RD2202F608	22K 1/6W 5 TA26
		R3F1	0RD2202F608	22K 1/6W 5 TA26			R443	0RD1201F608	1.2K 1/6W 5 TA26
1		R3F2	0RD3301F608	3.3K 1/6W 5 TA26	1		R444	0RD2701F608	2.7K 1/6W 5 TA26
		R3F3	0RD1801F608	1.8K 1/6W 5 TA26	1 1		R445	0RD1201F608	1.2K 1/6W 5 TA26
		R3F4	0RD4700F608	470 1/6W 5 TA26			R446	0RD2701F608	2.7K 1/6W 5 TA26
1		R3F5	0RD1200F608	120 1/6W 5 TA26			R447	0RD4700F608	470 1/6W 5 TA26
		R3F6	0RD4700F608	470 1/6W 5 TA26			R448	0RD1002F608	10K 1/6W 5 TA26
1	1	R3F7	0RD3301F608	3.3K 1/6W 5 TA26			R449	0RD1002F608	10K 1/6W 5 TA26
1		R3F8	0RD1002F608	10K 1/6W 5 TA26			R450	0RD1202F608	12K 1/6W 5 TA26
1		R3F9	0RD1002F608	10K 1/6W 5 TA26			R451	0RD0102F608	10 1/6W 5 TA26
		R3G0	0RD8200F608	820 1/6W 5 TA26			R452	0RD0102F608	10 1/6W 5 TA26
		R3G1	0RD1201F608	1.2K 1/6W 5 TA26			R453	0RD4702F608	47K 1/6W 5 TA26
1		R3G2	0RD6801F608	6.8K 1/6W 5 TA26			R454	0RD1003F608	100K 1/6W 5 TA26
1		R3G4	0RD3301F608	3.3K 1/6W 5 TA26			R455	0RD3900F608	390 1/6W 5 TA26
l	1	R3G6	0RD2201F608	2.2K 1/6W 5 TA26			R456	0RD1002F608	10K 1/6W 5 TA26
1		R3K1	0RD4701F608	4.7K 1/6W 5 TA26			R457	0RD2702F608	27K 1/6W 5 TA26
1		R3K2	0RD1501F608	1.5K 1/6W 5 TA26			R458	0RD0472F608	47 1/6W 5 TA26
1	}	R3K3	0RD1001F608	1.0K 1/6W 5 TA26			R459	0RD0472F608	47 1/6W 5 TA26
		R3K4	0RD6800F608	680 1/6W 5 TA26			P460	0RD2702F608	27K 1/6W 5 TA26

6	AL	LOCA NO	PART NO(GS)	SPECIFICATION		S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
3	AL					H		R4C8	0RD2203F608	220K 1/6W 5 TA26
l		R461	0RD2701F608	2.7K 1/6W 5 TA26				R4C9	0RD2203F608	220K 1/6W 5 TA26
		R462	0RD2701F608	2.7K 1/6W 5 TA26				R501	0RD4701F608	4.7K 1/6W 5 TA26
l		R463	0RD2202F608	22K 1/6W 5 TA26				R502	0RD1503F608	150K 1/6W 5 TA26
l		R464	0RD6800F608	680 1/6W 5 TA26						150K 1/6W 5 TA26
l		R465	0RD5602F608	56K 1/6W 5 TA26				R503	0RD1503F608	
		R466	0RD6801F608	6.8K 1/6W 5 TA26				R504	0RD1002F608	10K 1/6W 5 TA26
l		R467	0RD1001F608	1.0K 1/6W 5 TA26				R505	0RD1002F608	10K 1/6W 5 TA26
		R468	0RD1004F608	1.0M 1/6W 5 TA26				R506	0RD1003F608	100K 1/6W 5 TA26
		R469	0RD6801F608	6.8K 1/6W 5 TA26				R507	0RD1003F608	100K 1/6W 5 TA26
l		R470	0RD1202F608	12K 1/6W 5 TA26				R508	0RD1003F608	100K 1/6W 5 TA26
1		R47.1	0RD1001F608	1.0K 1/6W 5 TA26				R509	0RD1003F608	100K 1/6W 5 TA26
		R472	0RD1500F608	150 1/6W 5 TA26				R510	0RD1003F608	100K 1/6W 5 TA26
		R473	0RD0102F608	10 1/6W 5 TA26				R511	CRD1003F608	100K 1/6W 5 TA26
1		R474	0RD3902F608	39K 1/6W 5 TA26				R512	0RD1003F608	100K 1/6W 5 TA26
ı		R475	0RD6801F608	6.8K 1/6W 5 TA26				R513	0RD2201F608	2.2K 1/6W 5 TA26
1		R476	0RD4702F608	47K 1/6W 5 TA26				R514	0RD2201F608	2.2K 1/6W 5 TA26
ı		R478	0RD4702F608	47K 1/6W 5 TA26				R515	0RD1003F608	100K 1/6W 5 TA26
		R479	0RD4700F608	470 1/6W 5 TA26				R516	0RD1003F608	100K 1/6W 5 TA26
l		R480	0RD4702F608	47K 1/6W 5 TA26				R517	0RD1003F608	100K 1/6W 5 TA26
1		R482	0RD4702F608	47K 1/6W 5 TA26				R518	0RD1003F608	100K 1/6W 5 TA26
ı		R484	0RD3902F608	39K 1/6W 5 TA26				R519	0RD1003F608	100K 1/6W 5 TA26
ı		R485	0RD5601F608	5.6K 1/6W 5 TA26				R520	0RD1003F608	100K 1/6W 5 TA26
ı		R486	0RD3902F608	39K 1/6W 5 TA26				R521	0RD1800F608	180 1/6W 5 TA26
!		R487	0RD2201F608	2.2K 1/6W 5 TA26				R522	0RD1800F608	180 1/6W 5 TA26
	l	R488	0RD1001F608	1.0K 1/6W 5 TA26				R523	0RD4702F608	47K 1/6W 5 TA26
1		R489	0RD1001F608	1.0K 1/6W 5 TA26				R524	0RD4701F608	4.7K 1/6W 5 TA26
1		R490	0RD1001F608	1.0K 1/6W 5 TA26				R525	0RD4701F608	4.7K 1/6W 5 TA26
		R491	0RD1001F608	1.0K 1/6W 5 TA26				R526	0RD1002F608	10K 1/6W 5 TA26
		R492	0RD1001F608	1.0K 1/6W 5 TA26				R527	0RD4701F608	4.7K 1/6W 5 TA26
		R494	0RD5602F608	56K 1/6W 5 TA26				R528	0RD4701F608	4.7K 1/6W 5 TA26
		R495	0RD2201F608	2.2K 1/6W 5 TA26				R529	0RD1002F608	10K 1/6W 5 TA26
		R496	0RD1001F608	1.0K 1/6W 5 TA26				R530	0RD1002F608	10K 1/6W 5 TA26
		R497	0RD5602F608	56K 1/6W 5 TA26				R531	0RD1802F608	18K 1/6W 5 TA26
	1	R498	0RD2701F608	2.7K 1/6W 5 TA26				R532	0RD1802F608	18K 1/6W 5 TA26
		R499	0RD1002F608	10K 1/6W 5 TA26				R533	0RD8203F608	820K 1/6W 5 TA26
		R4A0	0RD1802F608	18K 1/6W 5 TA26				R534	0RD8203F608	820K 1/6W 5 TA26
		R4A1	0RD3302F608	33K 1/6W 5 TA26				R535	0RD4701F608	4.7K 1/6W 5 TA26
		R4A2	0RD4700F608	470 1/6W 5 TA26				R536	0RD4702F608	47K 1/6W 5 TA26
	l	R4A3	0RD8200F608	820 1/6W 5 TA26				R537	0RD1004F608	1.0M 1/6W 5 TA26
		R4A4	0RD1001F608	1.0K 1/6W 5 TA26				R538	0RD1204F608	1.2M 1/6W 5 TA26
1		R4A5	0RD1001F608	1.0K 1/6W 5 TA26				R539	0RD1501F608	1.5K 1/6W 5 TA26
1		R4A6	0RD4701F608	4.7K 1/6W 5 TA26				R541	0RD0221F608	2.2 1/6W 5 TA26
ı		R4A7	0RD1001F608	1.0K 1/6W 5 TA26				R542	0RD0221F608	2.2 1/6W 5 TA26
1		R4A8	0RD4702F608	47K 1/6W 5 TA26				R543	0RD0221F608	2.2 1/6W 5 TA26
		R4A9	0RD1002F608	10K 1/6W 5 TA26		12		R544	0RD1003F608	100K 1/6W 5 TA26
		R4B0	0RD1501F608	1.5K 1/6W 5 TA26				R545	0RD5601F608	5.6K 1/6W 5 TA26
		R4B1	0RD1801F608	1.8K 1/6W 5 TA26				R546	0RD6800F608	680 1/6W 5 TA26
		R4B2	0RD2201F608	2.2K 1/6W 5 TA26				R547	0RD1002F608	10K 1/6W 5 TA26
1		R4B3	0RD6800F608	680 1/6W 5 TA26				R548	0RD1002F608	10K 1/6W 5 TA26
		R4B4	0RD4701F608	4.7K 1/6W 5 TA26				R549	0RD4700F608	470 1/6W 5 TA26
	1	R4B5	0RD4701F608	4.7K 1/6W 5 TA26				R550	0RD1002F608	10K 1/6W 5 TA26
1		R4B6	0RD6800F608	680 1/6W 5 TA26				R551	0RD1002F608	10K 1/6W 5 TA26
		R4B7	0RD2201F608	2.2K 1/6W 5 TA26				R552	0RD1002F608	10K 1/6W 5 TA26
1		R4B8	0RD1501F608	1.5K 1/6W 5 TA26				R553	0RD2201F608	2.2K 1/6W 5 TA26
1		R4B9	0RD1801F608	1.8K 1/6W 5 TA26				R554	0RD3301F608	3.3K 1/6W 5 TA26
	1	R4C0	0RD1002F608	10K 1/6W 5 TA26				R555	0RD4701F608	4.7K 1/6W 5 TA26
1	1	R4C1	0RD4702F608	47K 1/6W 5 TA26				R556	0RD2202F608	22K 1/6W 5 TA26
	1	R4C3	0RD1001F608	1.0K 1/6W 5 TA26			1	R557	0RD0101F608	1.0 1/6W 5 TA26
	1	R4C4	0RD1001F608	1.0K 1/6W 5 TA26			1	R558	0RD0101F608	1.0 1/6W 5 TA26
	1	R4C5	0RD3302F608	33K 1/6W 5 TA26				R559	0RD0101F608	1.0 1/6W 5 TA26
		R4C6	0RD1503F608	150K 1/6W 5 TA26				R560	0RD0101F608	1.0 1/6W 5 TA26
1		R4C7	0RD1503F608	150K 1/6W 5 TA26				R561	0RD1002F608	10K 1/6W 5 TA26
L	<u> </u>		L		1					

s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		R562	0RD3300F608	330 1/6W 5 TA26			R616	0RD2203F608	220K 1/6W 5 TA26
		R563	0RD1002F608	10K 1/6W 5 TA26			R617	0RD2203F608	220K 1/6W 5 TA26
		R564	0RD1002F608	10K 1/6W 5 TA26			R618	0RD2203F608	220K 1/6W 5 TA26
		R565	0RD2701F608	2.7K 1/6W 5 TA26		ļ	R619	0RD1501F608	1.5K 1/6W 5 TA26
		R566	0RD1003F608	100K 1/6W 5 TA26			R620	0RD8202F608	82K 1/6W 5 TA26
		R567	0RD1002F608	10K 1/6W 5 TA26		ĺ	R621	0RD2203F608	220K 1/6W 5 TA26
		R568	0RD1002F608	10K 1/6W 5 TA26			R623	0RD8202F608	82K 1/6W 5 TA26
		R569	0RD1002F608	10K 1/6W 5 TA26			R627	0RD3902F608	39K 1/6W 5 TA26
		R570	0RD4700F608	470 1/6W 5 TA26			R628	0RD1203F608	120K 1/6W 5 TA26
£		R571	0RD1002F608	10K 1/6W 5 TA26		l	R629	0RD1203F608	120K 1/6W 5 TA26
		R572	0RD1002F608	10K 1/6W 5 TA26			R630	0RD3902F608	39K 1/6W 5 TA26
1 1		R573	0RD1002F608	10K 1/6W 5 TA26			R631	0RD8200F608	820 1/6W 5 TA26
		R574	0RD2702F608	27K 1/6W 5 TA26		l	R632	0RD8200F608	820 1/6W 5 TA26
ľ		R575	0RD2702F608	27K 1/6W 5 TA26			R635	0RD1501F608	1.5K 1/6W 5 TA26
		R576	0RD2702F608	27K 1/6W 5 TA26			R636	0RD1001F608	1.0K 1/6W 5 TA26
		R577	0RD3302F608	33K 1/6W 5 TA26		1	R637	0RD1002F608	10K 1/6W 5 TA26
	ĺ	R578	0RD2202F608	22K 1/6W 5 TA26	1	l	R6A0	0RD2200F608	220 1/6W 5 TA26
		R579	0RD6800F608	680 1/6W 5 TA26			R6A1	0RD3300F608	330 1/6W 5 TA26
		R580	0RD1001F608	1.0K 1/6W 5 TA26			R6A2	0RD3900F608	390 1/6W 5 TA26
		R581	0RD3900F608	390 1/6W 5 TA26			R6A3	0RD4700F608	470 1/6W 5 TA26
		R582	0RD1004F608	1.0M 1/6W 5 TA26			R6A4	0RD6800F608	680 1/6W 5 TA26
		R583	0RD4701F608	4.7K 1/6W 5 TA26			R6A5	0RD1001F608	1.0K 1/6W 5 TA26
		R584	0RD4701F608	4.7K 1/6W 5 TA26			R6A6	0RD1501F608	1.5K 1/6W 5 TA26
		R585	0RD4701F608	4.7K 1/6W 5 TA26			R6A7	0RD2201F608	2.2K 1/6W 5 TA26
				• • • • • • • • • • • • • • • • • • • •			R6A8	0RD3301F608	3.3K 1/6W 5 TA26
		R586	0RD4701F608	4.7K 1/6W 5 TA26		1	1		
		R587	0RD4701F608	4.7K 1/6W 5 TA26		1	R6A9	0RD5601F608	5.6K 1/6W 5 TA26
1		R588	0RD3301F608	3.3K 1/6W 5 TA26			R6B1	0RD1201F608	1.2K 1/6W 5 TA26
		R589	0RD1202F608	12K 1/6W 5 TA26			R701	ORD1000F608	100 1/6W 5 TA26
		R590	0RD2202F608	22K 1/6W 5 TA26	ı	1	R702	0RD4701F608	4.7K 1/6W 5 TA26
		R591	0RD1003F608	100K 1/6W 5 TA26			R703	0RD1001F608	1.0K 1/6W 5 TA26
		R592	0RD1001F608	1.0K 1/6W 5 TA26			R704	0RD1001F608	1.0K 1/6W 5 TA26
		R593	0RD0562F608	56 1/6W 5 TA26			R705	0RD1000F608	100 1/6W 5 TA26
		R594	0RD1001F608	1.0K 1/6W 5 TA26	1	1	R706	0RD2701F608	2.7K 1/6W 5 TA26
l		R595	0RD4701F608	4.7K 1/6W 5 TA26			R707	0RD1001F608	1.0K 1/6W 5 TA26
1		R596	0RD2202F608	22K 1/6W 5 TA26			R708	0RD2700F608	270 1/6W 5 TA26
1		R597	0RD2202F608	22K 1/6W 5 TA26		1	R710	0RD1802F608	18K 1/6W 5 TA26
1		R598	0RD2201F608	2.2K 1/6W 5 TA26			R711	0RD1002F608	10K 1/6W 5 TA26
		R599	0RD4703F608	470K 1/6W 5 TA26			R712	0RD1001F608	1.0K 1/6W 5 TA26
		R5A1	0RD8203F608	820K 1/6W 5 TA26			R714	0RD2700F608	270 1/6W 5 TA26
		R5A2	0RD6803F608	680K 1/6W 5 TA26		]	R715	0RD3300F608	330 1/6W 5 TA26
ŀ		R5A3	0RD1800F608	180 1/6W 5 TA26			R716	0RD1001F608	1.0K 1/6W 5 TA26
		R5A4	0RD1002F608	10K 1/6W 5 TA26			R717	0RD2200F608	220 1/6W 5 TA26
		R5A5	0RD1002F608	10K 1/6W 5 TA26			R729	0RD2201F608	2.2K 1/6W 5 TA26
1		R5A6	0RD4701F608	4.7K 1/6W 5 TA26			R730	0RD2201F608	2.2K 1/6W 5 TA26
	]	R5A7	0RD4701F608	4.7K 1/6W 5 TA26			R731	0RD1000F608	100 1/6W 5 TA26
	1	R5A8	0RD4701F608	4.7K 1/6W 5 TA26			R732	0RD5601F608	5.6K 1/6W 5 TA26
1	l	R5A9	0RD4701F608	4.7K 1/6W 5 TA26			R733	0RD1001F608	1.0K 1/6W 5 TA26
		R601	0RD3300F608	330 1/6W 5 TA26		1	R734	0RD1000F608	100 1/6W 5 TA26
1		R602	0RD3900F608	390 1/6W 5 TA26			R735	0RD5601F608	5.6K 1/6W 5 TA26
1	ĺ	R603	0RD4700F608	470 1/6W 5 TA26			R736	0RD1001F608	1.0K 1/6W 5. TA26
		R604	0RD6800F608	680 1/6W 5 TA26			R737	0RD4700F608	470 1/6W 5 TA26
1	1		0RD1001F608					0RD2701F608	
	1	R605		1.0K 1/6W 5 TA26 1.5K 1/6W 5 TA26			R738	0RD1001F608	2.7K 1/6W 5 TA26
1		R606 R607	0RD1501F608				R739		1.0K 1/6W 5 TA26
1	}	R608	ORD4701F608	4.7K 1/6W 5 TA26			R744	0RD2702F608	27K 1/6W 5 TA26
1			0RD4701F608	4.7K 1/6W 5 TA26			R745	0RD1802F608	18K 1/6W 5 TA26
		R609	0RD4701F608	4.7K 1/6W 5 TA26			R746	0RD1001F608	1.0K 1/6W 5 TA26
1		R610	0RD3302F608	33K 1/6W 5 TA26		ļ	R747	0RD1001F608	1.0K 1/6W 5 TA26
1		R611	0RD1200F608	120 1/6W 5 TA26		1	R801	0RD1203F608	120K 1/6W 5 TA26
		R612	0RD4700F608	470 1/6W 5 TA26		1	R802	0RD5601F608	5.6K 1/6W 5 TA26
1		R613	0RD5600F608	560 1/6W 5 TA26			R803	0RD8201F608	8.2K 1/6W 5 TA26
	1	R614	0RD5600F608	560 1/6W 5 TA26			R804	0RD3902F608	39K 1/6W 5 TA26
	í	R615	ORD0471F608	4.7 1/6W 5 TA26		1	R805	0RD1002F608	10K 1/6W 5 TA26

										HUN DATE : 95.09.26
s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION		s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
	_	R806	0RD1202F608	12K 1/6W 5 TA26				R901	0RH8201D622	8.2K 1/10W 5 D.R/TP
				8.2K 1/6W 5 TA26	- 1			R902	0RH1000D622	100 1/10W 5 D.R/TP
		R807	0RD8201F608	1	- 1			R903	0RH8200D622	820 1/10W 5 D.R/TP
		R808	0RD2201F608	2.2K 1/6W 5 TA26	- [			R904	,	•
		R809	0RD1001F608	1.0K 1/6W 5 TA26					0RH4702D622	47K 1/10W 5 D.R/TP
		R810	0RD1001F608	1.0K 1/6W 5 TA26	١			R905	0RH1200D622	120 1/10W 5 D.R/TP
		R811	0RD2200F608	220 1/6W 5 TA26	- 1			R906	0RH5602D622	56K 1/10W 5 D.R/TP
		R812	0RD4700F608	470 1/6W 5 TA26		- 1		R907	0RH3903D622	390K 1/10W 5 D.R/TP
		R813	0RD1001F608	1.0K 1/6W 5 TA26		1		R908	0RH4703D622	470K 1/10W 5 D.R/TP
		R814	0RD3302F608	33K 1/6W 5 TA26	١			R909	0RH5601D622	5.6K 1/10W 5 D.R/TP
		R815	0RD1002F608	10K 1/6W 5 TA26	- 1			R910	0RD0752F608	75 1/6W 5 TA26
		R816	0RD4701F608	4.7K 1/6W 5 TA26				R911	0RH0752D622	75 1/10W 5 D.R/TP
	١. ا	R817	0RD4701F608	4.7K 1/6W 5 TA26				R912	0RH0752D622	75 1/10W 5 D.R/TP
		R818	0RD1003F608	100K 1/6W 5 TA26				R913	0RH0752D622	75 1/10W 5 D.R/TP
		R819	0RD6803F608	680K 1/6W 5 TA26	- 1			R914	0RH1002D622	10K 1/10W 5 D.R/TP
		R820	0RD1002F608	10K 1/6W 5 TA26	١			R915	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R821	0RD3900F608	390 1/6W 5 TA26			1	R916	0RH0102D622	10 1/10W 5 D.R/TP
		R822	0RD1001F608	1.0K 1/6W 5 TA26				R917	0RH1001D622	1.0K 1/10W 5 D.R/TP
Į.		R823	0RD1001F608	1.0K 1/6W 5 TA26				R918	0RH1001D622	1.0K 1/10W 5 D.R/TP
l		R824	0RD1001F608	1.0K 1/6W 5 TA26	- 1			R919	0RH5600D622	560 1/10W 5 D.R/TP
		R825	0RD4701F608	4.7K 1/6W 5 TA26				R921	0RH1001D622	1.0K 1/10W 5 D.R/TP
		R826	0RD4701F608	4.7K 1/6W 5 TA26				R922	0RH1202D622	12K 1/10W 5 D.R/TP
		R831	0RD4703F608	470K 1/6W 5 TA26				R923	0RH1802D622	18K 1/10W 5 D.R/TP
		R832	0RD6802F608	68K 1/6W 5 TA26	- 1			R924	0RH3901D622	3.9K 1/10W 5 D.R/TP
		R833	0RD4700F608	470 1/6W 5 TA26	- 1			R926	0RD1001F608	1.0K 1/6W 5 TA26
		R834	0RD2203F608	220K 1/6W 5 TA26				R930	0RH5600D622	560 1/10W 5 D.R/TP
		R835	0RD3302F608	33K 1/6W 5 TA26				R950	0RH1002D622	10K 1/10W 5 D.R/TP
		R836	0RD1001F608	1.0K 1/6W 5 TA26	- 1			R951	0RH1002D622	10K 1/10W 5 D.R/TP
		R837	0RD4701F608	4.7K 1/6W 5 TA26	- 1		- 1	RP01	614-007A	2.7/2W CEMENT SMPS V
		R838	0RD2203F608	220K 1/6W 5 TA26	- [		ſ	RP02	0RD1503H600	150K 1/2W 5 A
		R839	0RD2702F608	27K 1/6W 5 TA26	- 1		1	RP03	0RD1001F608	1.0K 1/6W 5 TA26
		R840	0RD0752F608	75 1/6W 5 TA26	- 1			RP04	0RS0562J600	56 1W 5 A
		R841	0RD0752F608	75 1/6W 5 TA26	1	ı		RP05	0RD0221F608	2.2 1/6W 5 TA26
		R842	0RD0752F608	75 1/6W 5 TA26	- 1			RP06	0RW0101K600	1 2W 5% A
		R843	0RD1001F608	1.0K 1/6W 5 TA26	-			RP07	0RD1201F608	1.2K 1/6W 5 TA26
		R844	0RD1001F608	1.0K 1/6W 5 TA26	1	ı		RP08	0RD2701F608	2.7K 1/6W 5 TA26
		R847	0RD0752F608	75 1/6W 5 TA26	- 1			RP09	0RN4701F408	4.7K 1/6W 1 TA26
		R848	0RD1001F608	1.0K 1/6W 5 TA26				RP10	0RD4701F608	4.7K 1/6W 5 TA26
		R849	0RD1001F608	1.0K 1/6W 5 TA26	- 1		1	RP13	0RD3900F608	390 1/6W 5 TA26
		R850	0RD0682F608	68 1/6W 5 TA26	П			RP14	0RD1000F608	100 1/6W 5 TA26
		R851	0RD0752F608	75 1/6W 5 TA26	- [			RP15	0RD2203F608	220K 1/6W 5 TA26
		R852	0RD1001F608	1.0K 1/6W 5 TA26	- 1		1	RP16	0RD1003F608	100K 1/6W 5 TA26
		R857	0RD8202F608	82K 1/6W 5 TA26	- 1		1	RP21	0RN3001F408	3.0K 1/6W 1 TA26
		R858	0RD8202F608	82K 1/6W 5 TA26	- 1	ı	ı	W014	0RD1500F608	150 1/6W 5 TA26
		R859	0RD6802F608	68K 1/6W 5 TA26	- 1			W950	0RH0000D622	0 1/10W 5 D.R/TP
		R860	0RD6802F608	68K 1/6W 5 TA26				W951	0RH0000D622	0 1/10W 5 D.R/TP
		R861	0RD5602F608	56K 1/6W 5 TA26	- [			W952	0RH0000D622	0 1/10W 5 D.R/TP
		R862	0RD5602F608	56K 1/6W 5 TA26	1		ļ	W952 W953	0RH0000D622	0 1/10W 5 D.R/TP
		R863	0RD8202F608	82K 1/6W 5 TA26				W954	0RH0000D622	0 1/10W 5 D.R/TP
		R865	0RD8202F608	82K 1/6W 5 TA26	- 1			W955	0RH0000D622	0 1/10W 5 D.R/TP
		R867	0RD1203F608		1			W956	0RH0000D622	
				120K 1/6W 5 TA26	Į.		1	VV 900	UNITUUUUUU022	0 1/10W 5 D.R/TP
		R868	ORD8202F608	82K 1/6W 5 TA26					REMOCOL	N RECEIVER
		R869	0RD5602F608	56K 1/6W 5 TA26 68K 1/6W 5 TA26					- ILINOUOI	
		R870	0RD6802F608		П			RC601	668-227C	RECE 15.0 3276A 2800 KOTEC
		R871	0RD6802F608	68K 1/6W 5 TA26	ŀ	_				
		R872	0RD5602F608	56K 1/6W 5 TA26	- 1				SC	ART
		R873	0RD8202F608	82K 1/6W 5 TA26	1					<u> </u>
		R874	0RD1203F608	120K 1/6W 5 TA26	- 1			JK801	573-006C	RGB SOKET SR-21S3 21PIN (BK)
		R879	0RD3300F608	330 1/6W 5 TA26				JK802	573-006D	RGB (BLUE)
		R891	0RD1003F608	100K 1/6W 5 TA26	ı					
		R892	0RD0752F608	75 1/6W 5 TA26					SW	ITCH
		R893	0RD0752F608	75 1/6W 5 TA26	ŀ	-1		014455		
		R894	0RD6800F608	680 1/6W 5 TA26	- 1			SW601	556-219A	SKHV10910A (GS ALPS)
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BUN DATE: 95.09.20

s	AL.	LOCA.NO	PART NO(GS)	SPECIFICATION		
-	7.		, ,			
		SW602	556-219A	SKHV10910A (GS ALPS)		
	i i	SW603	556-219A	SKHV10910A (GS ALPS)		
		SW604	556-219A	SKHV10910A (GS ALPS)		
		SW605	556-219A	SKHV10910A (GS ALPS)		
		SW606	556-219A	SKHV10910A (GS ALPS)		
		SW607	556-219A	SKHV10910A (GS ALPS)		
		SW6A0	556-219A	SKHV10910A (GS ALPS)		
		SW6A1	556-219A	SKHV10910A (GS ALPS)		
		SW6A2	556-219A	SKHV10910A (GS ALPS)		
		SW6A3	556-219A	SKHV10910A (GS ALPS)		
		SW6A4	556-219A	SKHV10910A (GS ALPS)		
		SW6A5	556-219A	SKHV10910A (GS ALPS)		
		SW6A6	556-219A	SKHV10910A (GS ALPS)		
		SW6A7	556-219A	SKHV10910A (GS ALPS)		
		SW6A9	556-219A	SKHV10910A (GS ALPS)		
TUNER						
		TU701	521-412A	TUGG9-A01F G/ALPS FS 470 FTZ		
VARIABLE RESISTOR						
		VR201	613-032U	RH0638C15R0WA (100K)		
		VR202	613-032U	RH0638C15R0WA (100K)		
		VR3A0	613-032U	RH0638C15R0WA (100K)		
		VR401	613-032Q	RH0638CJ4R0WA (22K)		
		VR402	613-032Q	RH0638CJ4R0WA (22K)		
	)	VR403	613-032U	RH0638C15R0WA (100K)		
		VR4A0	613-032Q	RH0638CJ4R0WA (22K)		
		VR4A1	613-032S	RH0638CS4R0VA (47K)		
	1	VR4A2	613-032S	RH0638CS4R0VA (47K)		
		VR4A3	613-032S	RH0638CS4R0VA (47K)		
		VR4A4	613-032Q	RH0638CJ4R0WA (22K)		
1	1		611-012	RK09K117000324B		
		VR601				
		VR602 VR701	611-012I 613-032Q	RK09K117000324B RH0638CJ4R0WA (22K)		
CRYSTAL						
_		I				
l		X202	529-001K	32.768KHZ 3*8 SEIKO (20PPM)		
		X301	529-029K	4.433619MHZ 15PPM HC-49/U KSS		
		X3A0	529-022F	4.433619M 30PPM CL=16P DL=1M		
1		X501	529-020R	12.000000MHZ 30PPM NO-TU L=4.0		
		X502	529-022E	11.71875 30PPM CL=10P DL=1M		
		X701	529-021Q	18.432MHZ DBS KUKJAE		
		X801	529-019A	CSB500F-9 MURATA		
		X8A1	529-022V	17.734476MHZ CL-12P 25PPM LEAD		
	<u></u>		RESC	NATOR		
$\vdash$	T	X201	618-017A	FCR6.0MCT2 TDK-J(TAPING)		
	1	1	1	R DIODE		
<u> </u>	_	T-nes.	1	1		
	1	ZD201	0DZ820009AA	MTZ8.2B TP ROHM-K		
		ZD202	0DZ620009AA	MTZ6.2B (TA)		
1	1	ZD203	0DZ620009AA	MTZ6.2B (TA)		
	1	ZD205	0DZ560009CA	MTZ5.6B TP ROHM-K		
1		ZD301	0DZ620009AA	MTZ6.2B (TA)		
1		ZD302	0DZ620009AA	MTZ6.2B (TA)		
1		ZD304	0DZ100009AA	MTZ10B MINI TP ROHM-K		
1		ZD401	0DZ100009AA	MTZ10B MINI TP ROHM-K		
1	1	ZD402	0DZ100009AA	MTZ10B MINI TP ROHM-K		
		ZD403	0DZ100009AA	MTZ10B MINI TP ROHM-K		
		•				

				RUN DATE : 95.09.26
s	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		ZD501	0DZ620009AA	MTZ6.2B (TA)
		ZD601	0DZ160009BA	MTZ16B TP ROHM-K
		ZD602	0DZ160009BA	MTZ16B TP ROHM-K
		ZD701	0DZ100009AA	MTZ10B MINI TP ROHM-K
		ZD801	0DZ160009BA	MTZ16B TP ROHM-K
		ZD802	0DZ160009BA	MTZ16B TP ROHM-K
		ZD803	0DZ160009BA	MTZ16B TP ROHM-K
		ZD804	0DZ160009BA	MTZ16B TP ROHM-K
		ZD805	0DZ160009BA	MTZ16B TP ROHM-K
		ZD806	0DZ160009BA	MTZ16B TP ROHM-K
		ZD807	0DZ160009BA	MTZ16B TP ROHM-K
		ZD808	0DZ160009BA	MTZ16B TP ROHM-K
		ZD809	0DZ160009BA	MTZ16B TP ROHM-K
		ZD810	0DZ160009BA	MTZ16B TP ROHM-K
		ZD811	0DZ160009BA	MTZ16B TP ROHM-K
		ZD812	0DZ160009BA	MTZ16B TP ROHM-K
		ZD813	0DZ160009BA	MTZ16B TP ROHM-K
		ZD814	0DZ160009BA	MTZ16B TP ROHM-K
		ZD815	0DZ160009BA	MTZ16B TP ROHM-K
		ZD816	0DZ160009BA	MTZ16B TP ROHM-K
		ZD817	0DZ160009BA	MTZ16B TP ROHM-K
		ZD818	0DZ160009BA	MTZ16B TP ROHM-K
		ZD819	0DZ160009BA	MTZ16B TP ROHM-K
		ZD820 ZD821	0DZ160009BA 0DZ160009BA	MTZ16B TP ROHM-K MTZ16B TP ROHM-K
		ZD821 ZD822	0DZ160009BA	MTZ16B TP ROHM-K
		ZD822 ZD823	0DZ160009BA	MTZ16B TP ROHM-K
		ZD823 ZD824	0DZ160009BA	MTZ16B TP ROHM-K
		ZD825	0DZ160009BA	MTZ16B TP ROHM-K
		ZD826	0DZ160009BA	MTZ16B TP ROHM-K
		ZD827	0DZ160009BA	MTZ16B TP ROHM-K
		ZD828	0DZ160009BA	MTZ16B TP ROHM-K
		ZD829	0DZ160009BA	MTZ16B TP ROHM-K
		ZD830	0DZ160009BA	MTZ16B TP ROHM-K
		ZD831	0DZ160009BA	MTZ16B TP ROHM-K
		ZD832	0DZ160009BA	MTZ16B TP ROHM-K
		ZD833	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD834	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZDP01	0DZ330009AF	MTZ33B,TP,ROHM-K
		ZDP02	0DZ560009CA	MTZ5.6B TP ROHM-K
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